

nabc language for gregorio

M- nes * qui in Chris- to bapti- zá- ti es- tis, Chris- tum in-
du- í- stis, al- le- lú- ia.

The nabc language provides the ability to describe some adiastematic neumes, for now just the St. Gallen and Laon (Metz notation family) style. The language is partially based on Dom Eugène Cardine's Table of neumatic signs, but for more complex neumes doesn't always match how the neumes are called; instead attempts to make it easier to compose complex neumes from basic glyphs. To describe adiastematic neumes in gabc, the header should contain nabc-lines: 1; line, like:

```
nabc-lines: 1;
(f3) AL(ef~|ta>)le(fg/hggf|peclhgpi)lú(ef~|ta>)ia.(f.|ta-) (, )
(ii//|bv-|gh!ivHG//|vi-hhppu2su1sut1|fhg/|to|eef.|pt) (;
```

The nabc snippets are then separated by | character from gabc snippets or other nabc snippets. Every gabc snippet may be followed by multiple nabc snippets. The maximum number of consecutive nabc snippets is the number declared in the header field nabc-lines: x;. After reaching that number of consecutive nabc snippets another gabc snippet followed by nabc snippets can follow. A single nabc snippet is not split into multiple lines, so for larger melismatic pieces it is desirable to synchronize the gabc snippets with corresponding nabc snippets. With nabc-lines: 1; the gabc and nabc snippets form an alternating pattern, like (gabc|nabc|gabc|nabc|gabc), in this case the last gabc snippet does not have any corresponding nabc neumes. With nabc-lines: 2; the snippets ordering could be e.g. (gabc|nabc1|nabc2|gabc|nabc1).

Each nabc snippet consists of a sequence of *complex neume descriptors*. Each *complex neume descriptor* consists of optional *horizontal spacing adjustment descriptor*, then *complex glyph descriptor*, optionally followed by a sequence of *subpunctis and prepunctis descriptors*, optionally followed by a sequence of *significant letter descriptors*.

The *horizontal spacing adjustment descriptor* consists of a sequence of horizontal spacing adjustment characters / and `.

- // move by nabclargerspace skip to the right
- / move by nabcinterelementspace skip to the right
- `` move by nabclargerspace skip to the left
- ` move by nabcinterelementspace skip to the left

The *complex glyph descriptor* consists of a *glyph descriptor*, optionally followed by a sequence of other *glyph descriptors*, all separated by the ! character. This is used to describe more complex glyphs, where certain basic glyphs are connected together.

Each *glyph descriptor* consists of a *basic glyph descriptor*, followed by optional *glyph modifiers*, followed by optional *pitch descriptor*. The following description is for the St. Gall family of neumes, when using the gregall or gresgmodern fonts. For details on Laon (Metz notation family) neumes see 4.

The *basic glyph descriptor* is a two-letter string from the following table:

vi ✓ virga	po ↗ porrectus	tr ↘ torculus resupinus	tv ⚡ trivirga	pq ✓ pes quassus
pu . punctum	to ↙ torculus	st , stropha	pr ↛ pressus maior	ql ↙ quilisma (3 loops)
ta . tractulus	ci ↖ climacus	ds .. distropha	pi ↚ pressus minor	qi ↙ quilisma (2 loops)
gr . gravis	sc ↔ scandicus	ts ... tristropha	vs ↪ virga strata	pt ↤ pes stratus
cl ↗ clavis	pf ↗ porrectus flexus	tg .. trigonus	or ↙ oriscus	ni nihil
pe ↖ pes	sf ↕ scandicus flexus	bv ↘ bivirga	sa ↙ scandicus	

The *glyph modifiers* is a possibly empty sequence of following characters optionally followed by a number:

- S modification of the mark
- G modification of the grouping (neumatic break)
- M melodic modification
- - addition of episema
- > augmentive liquescence
- ~ diminutive liquescence

If Dom Cardine's table contains multiple glyphs with the same modifiers, a positive number is added afterwards. E.g. for augmentive liquescent clavis the table shows two different glyphs, the ancus cl> ↗ and then another neume - cl>1 ↗, the first neume does not contain any number after it, while the 1 indicates first variant.

The *pitch descriptor* allows to specify the vertical position of the neume. There are no staves, so the vertical position is only rough. For pitches the same letters as in gabc are used, a through n and p. If the *pitch descriptor* is missing, the default is hf, otherwise it consists of the letter h followed by the pitch letter. Within the *complex glyph descriptor*, each *basic glyph descriptor* has its own pitch, but in the current fonts there are no glyphs with different relative pitches, so if you use a *pitch descriptor* on any of the *basic glyph descriptors* in the *complex glyph descriptor*, it is best to use the same one on all the other *basic glyph descriptors* in the same *complex glyph descriptor*.

The *subpunctis and prepunctis descriptor* consists of the letters su for subpunctis or pp for prepunctis, followed optionally by a modifier letter from the following table and finally a mandatory positive number of repetitions. If the modifier letter is missing, it is a punctum.

- t . tractulus

- u tractulus with episema
- v tractulus with double episema
- w gravis
- x liquescens stropha
- y gravis with episema

Only subpunctis are normally used in neume classification, the prepunctis is a nabc concept to describe the rising sequence of punctis, tractulis etc. in the left low corner of some neume. While e.g. vipp2 ↗ describes the same neume as sc ↗, the former form allows better control on how many punctis or tractulis or tractulis with episema etc. there are. Some examples: ppt3 ↘ stands for 3 raising tractulis with episema, while su1sut1sux1 ↘ stands for a punctum, followed by tractulus, followed by liquescens stropha.

The *significant letter descriptor* consists of the letters ls, followed by a shorthand of the significant letter or common group of them, followed by a number - a rough position relative to the *complex glyph descriptor* glyph with prepunctis and subpunctis attached to it. If more than one *significant letter descriptor* is used on the same *complex neume descriptors* for the same position, then they are ordered in the order they are written in the nabc snippet at that position. The position numbers are:

1 ↗ left upper corner	2 ↗ above the neume	3 ↗ right upper corner
4 ↙ to the left of the neume		6 ↛ to the right of the neume
7 ↙ left bottom corner	8 ↘ below the neume	9 ↚ right bottom corner

The shorthands, including the ls prefix, which should be followed by the above mentioned position digit:

lsal ↗ altius	lsiv ↗ iusum valde	lss ↗ sursum
lsam ↗ altius mediocriter	lsk ↗ klenche	lssb ↗ sursum bene
lsb ↗ bene	lsl ↗ levare	lssc ↗ sursum celeriter
lsc ↗ celeriter	lslb ↗ levare bene	lssimil ↗ simuliter
lscm ↗ celeriter mediocriter	lslc ↗ levare celeriter	lssimul ↗ simul
lscn ↗ coniunguntur	lslen ↗ leniter	lssm ↗ sursum mediocriter
lscw ↗ celeriter (wide form)	lslm ↗ levare mediocriter	lsst ↗ sursum tenere
lsd ↗ deprimatur	lslp ↗ levare parvum	lssta ↗ statim
lse ↗ equaliter	lslt ↗ levare tenere	lst ↗ tenere
lseq ↗ equaliter	lsm ↗ mediocriter	lstb ↗ tenere bene
lsew ↗ equaliter (wide form)	lsmoll ↗ molliter	lstm ↗ tenere mediocriter
lsfid ↗ fideliter	lsp ↗ parvum	lstw ↗ tenere (wide form)
lsfr ↗ frendor	lspar ↗ paratim	lsv ↗ valde
lsg ↗ guttura	lspfec ↗ perfecte	lsvol ↗ volubiliter
lsi ↗ iusum	lspm ↗ parvum mediocriter	lsx ↗ expectare
lsim ↗ iusum mediocriter	lspulcre ↗ pulcre	

Nihil - ni is an artificial empty base glyph around which it is possible to place significant letters and/or subpunctis and/or prepunctis.

Finally a commented example of a nabc snippet:

```po///pe>2lse7ls13qlhh!vshhppt1sut2ql>ppu3



``` stands for a negative horizontal skip (move to the left) by nabcinterelementspace and nabclargerspace.  
po ↗ is a basic porrectus, at the default pitch (height hf).

/// stands for a horizontal skip (move to the right) by two times nabclargerspace.

pe>2lse7ls13 ↗ stands for the 3rd augmentive liquescent form of podatus (epiphonus with tractulus, see the following page) at the default pitch, with equaliter in the low left corner and levare in the upper right corner.

qlhh!vshhppt1sut2 ↗ stands for a 3 loop quilisma joined with virga strata, both at relative pitch 2 above the default one, with a single tractulus before it and two subpunctis - tractulis.

ql>ppu3 ↗ is a 3 loop liquescent quilisma with 3 tractulis with episema before it.

The *basic glyph descriptor* for Laon neumes is very similar to the one used for St. Gall neumes, but with uncinus and oriscus-clivis added and stropha, 2 loops quilisma and gravis removed:

| | | | |
|---------------------|-------------------------|--------------------|------------------|
| un ↗ uncinus | po ↗ porrectus | ds ↗ distropha | or ↗ oriscus |
| vi ↗ virga | to ↗ torculus | ts ↗ tristropha | sa ↗ scandicus |
| pu ↗ punctum | ci ↗ climacus | tg ↗ trigonus | pq ↗ pes quassus |
| ta ↗ tractulus | sc ↗ scandicus | bv ↗ bivirga | ql ↗ quilisma |
| gr ↗ gravis | pf ↗ porrectus flexus | tv ↗ trivirga | pt ↗ pes stratus |
| cl ↗ clivis | sf ↗ scandicus flexus | pr ↗ pressus maior | ni ↗ nihil |
| oc ↗ oriscus-clivis | tr ↗ torculus resupinus | pi ↗ pressus minor | |
| pe ↗ pes | | vs ↗ virga strata | |

The *subpunctis and prepunctis descriptor* consists of the letters su for subpunctis or pp for prepunctis, followed optionally by a modifier letter from the following table and finally a mandatory positive number of repetitions. If the modifier letter is missing, it is a punctum.

- n ↗ uncinus
- q ↗ quilisma
- z ↗ virga
- x ↗ cephalicus

The *significant letter descriptor* for Laon neumes allows another position, 5, which stands for inside the neume. The exact position of the letter depends on the glyph, if there is no glyph with the neume inside of it, it can't be positioned inside the neume.

The shorthands, including the 1s prefix, which should be followed by the above mentioned position digit for Laon neumes are:

| | |
|-------------------------------------------------|-------------------------|
| lsa ↗ augete | lsnl ↗ non levare |
| lsc ↗ celeriter | lsnt ↗ non tenere |
| lseq ↗ equaliter | lsm ↗ mediocriter |
| lseq- ↗ equaliter | lsmd ↗ mediocriter |
| lsequ ↗ equaliter | lss ↗ sursum |
| lsf ↗ fastigium | lssimp ↗ simpliciter |
| lsh ↗ humiliter | lssimpl ↗ simpliciter |
| lshn ↗ humiliter nectum | lssp ↗ sursum parum |
| lshp ↗ humiliter parum | lsst ↗ sursum tenere |
| lsl ↗ levare | lst ↗ tenere |
| lsn ↗ non (tenere), negare, nectum, naturaliter | lsth ↗ tenere humiliter |

For the Tironian notes the form of the *significant letter descriptor* starts with the 1t prefix followed by letters from the following list, followed by above mentioned position digit (5 can't be used):

| | |
|-------------------------------------|------------------------|
| lti ↗ iusum | ltsj ↗ subjice |
| ltdo ↗ deorsum | ltsl ↗ saltim |
| ltdr ↗ devertit | ltsn ↗ sonare |
| ltdx ↗ devexum | ltsp ↗ supra |
| ltps ↗ prode sub eam (trade subtus) | ltsr ↗ sursum |
| ltqm ↗ quam mox | ltst ↗ saltate (salte) |
| ltsb ↗ sub | ltus ↗ ut supra |
| ltse ↗ seorsum | |

| Names of Symbols | Simple Symbols | Symbols differentiated by | | | | Symbols indicating a special meaning | | |
|--------------------|----------------|--------------------------------------------|-----------------|-----------------------|----------------------------------|--------------------------------------|------------------|--------------|
| | | the addition | | the modification | | melodic | phonetic | |
| | | of letters | of episemas | of the mark | of the grouping (neumatic break) | | liquef. augment. | dimi nut. |
| virga | / vi | / vilsc3 vilst1 vipp1lsc2 | / vi- | | | / viM | / vi> | |
| tractulus | - ta | - talsc3 talst2 | | | | / taM | / ta> | |
| punctum | · pu | | | | | / , | / , | st visuisux1 |
| gravis | ˇ gr | | | | | | | |
| clivis | ˘ cl | ˘ cllsc3 clst2 cl-lst2 | ˘ cl- clS- | ˘ clS clS1 | | / clM | / cl> | / cl- |
| pes | ˘ pe | | ˘ pe- pe-1 | ˘ peS | / peG | / peG | / pe>1 pe>2 | / pe- |
| porrectus | ˘ po | ˘ polsc2 | ˘ po- po-1 | | / poG | | / po> | / po- |
| torculus | ˘ to | ˘ tolsc3 tolsc4lst3 tolst2 | ˘ to- to-1 | ˘ toS toS1 toS2 toS3 | / toG | / toM toM1 | / to> | / to> |
| climacus | ˘ ci ci1 | ˘ cilsc3 cilst2 | ˘ ci- | ˘ ciS ciS1 visutisu2 | / ciG ciG1 | / ciM | / ci> | / ci- |
| scandicus | ˘ sc | | ˘ sc- | ˘ scS | / scG scG1 | / scM1 | / sc> | / sc- |
| porrectus flexus | ˘ pf | ˘ pf1sc2 pf1sc2 pf1st2 | ˘ pf- | ˘ pfS | / sfM | | / pf> | / pf- |
| pes subbipunctis | ˘ pesu2 | ˘ vipp1su2lsc3 | ˘ pesu2 pe-isu2 | ˘ pesu2 peSsu2 peSut2 | / pesu1su2 | / vi-!ci pesu1suw1 | / to> | |
| scandicus flexus | ˘ sf | ˘ sflsc3 | ˘ sf- | ˘ sfS | / vi-tohk pechli | | / cl>ppt2 | / sc> |
| torculus resupinus | ˘ tr | ˘ trlsc2 ˘ trlst2 | ˘ tr-1 | ˘ trS | / trG trG1 trG2 | / trM | / tr> | / tr- |
| apostropha | ' st | | ' st- | ' stS | | | ' st> | |
| distropha | '' ds | '' ds-lsx6 | '' ds- | | | | ' ds> | |
| tristropha | ''' ts | ''' ts-lsx6 | ''' ts- | | | | ' ts> | |
| trigonus | .. tg tg1 | | | .. tgS tgS1 tgS3 | | | ' tg> | |
| bigirga & trivirga | // bv tv | | // bv- tv- | | | | / bv> | |
| pressus | ˘ pr pi | ˘ prlsc2 pr-lsc2 prlst2
˘ pilsc2 pilst2 | ˘ pr- | | | / prM | / pr> pi> | / vs> |
| virga strata | ˘ vs | ˘ vs1sc3 vs1st2 | ˘ vs- | | | | | / or> |
| oriscus | ˘ or | | | | | | | / ta> |
| salicus | ˘ sa sa1 | ˘ salsfr1 saM1sfr1 | ˘ sa- sa-1 | | | / saM saM1 saM2 | / sa> sa->1 | / pe>2 |
| pes quassus | ˘ pq | ˘ pq1sfr1 | ˘ pq- | | | | / pq> | |
| quilisma | ˘ q1 q1 | | ˘ q1- q1- | | | | / q1> q1> | |
| pes stratus | ˘ pt | | | | | | | |

Table from Cardine's Gregorian Semiology, pp. 12-13 with nabc strings and gregall glyphs.

| Name of Symbols | Simple Symbols | Symbols differentiated by | | | Symbols indicating a special meaning | |
|--------------------------|----------------|--------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|
| | | the modification | | the addition of letters | melodic | phonetic |
| | | of the mark | of the grouping (neumatic break) | | | |
| uncinus | un | | | | | |
| punctum | pu | | | | | |
| virga | vi | ✓ ✓ ✓ ✓ | viS vipp2su2vihh | | | ρ
vi>1 |
| tractulus | ta | ✓ ✓ | ds ts | ✓ | ✓ | ✓
ta>2 |
| clivis | cl | | | ✓ | ✓ | ✓
cl> cl>1 |
| pes | pe | | | ✓ | ✓ | ✓
pe>1 |
| porrectus | po | | | ✓ | ✓ | ✓
po> |
| torculus | to | ○ | toS1 | ✓ | ✓ | ✓
to> |
| climacus | ci | ⋮ | pusuisun1 visu2 unsun2 | ✓ | ✓ | ✓
cl>1 |
| scandicus | sc sc1 | ✓ ✓ ✓ | vippn1pp1 vippn2 | ✓ | ✓ | ✓
vi>1pp2 |
| porrectus flexus | pf1 | ✓ | pfS | ✓ ✓ | ✓ | ✓
pf> |
| (pes subbipunctis) | tosu1 | ✓ | tosun1 | ✓ ✓ | ✓ | ✓
unlsts2~puhisuisun1 |
| scandicus flexus | sf | ✓ | | ✓ ✓ | ✓ | ✓
unhdlst2~pelst2clhh |
| torculus resupinus | tr | ✓ | trS | ✓ ✓ | ✓ | ✓
tr> pe`ta> |
| clivis + pes or torculus | cl!pe cl!to | → | toS!pe | ✓ | ✓ | ✓
or> |
| oriscus | or ori | isolated &
at the syllabic articulation | | ✓
ql
oc oc!vi pq pq1
tg
cl1!or cl1!pi cl1!pi!vi cl1!pi!cl cl1!pi!to
to!or
sa sa1
vs vsG | ✓
pe!or | |
| quilisma | ql ql!cl ql!po | | | | | |
| pes stratus | pt1 | | | | | |

Table from Cardine's Gregorian Semiology, pp. 14-15 with nabc strings and grelaon glyphs.

Table with nabc strings and corresponding gregall and gresgmodern glyphs:

| | | | | | | | | |
|---------------|----|---------|-------------|---------|---------|---------------|---------|---------|
| bv | // | // | clSsut1sux1 | missing | ~ | lsvol | not | missing |
| bv- | // | // | clSsut2 | ~ | ~ | lsx | x | x |
| bv-sut2 | ~~ | missing | clSsuu1su2 | ~ | missing | ni | | |
| bv-sut3sux1 | ~~ | missing | clSsut1 | missing | ~ | or | s | s |
| bv> | ~~ | ~ | cllsc3 | ~ | missing | or> | s | s |
| ci | ~. | ~. | cllst2 | ~ | missing | pe | ✓ | ✓ |
| ci- | ~. | ~. | clpp2 | ~ | missing | pe!vi | ✓ | ✓ |
| ci-pp2 | ~. | ~. | clppt1 | ~ | missing | pe- | ✓ | ✓ |
| ci1 | ~. | ~. | clppt2 | ~ | missing | pe-1 | ✓ | ✓ |
| ci> | ~. | ~. | cl~ | ~ | missing | pe-1su1sut1 | ✓ | ✓ |
| ciG | ~. | ~. | ds | " | missing | pe-1su1sut2 | ✓ | ✓ |
| ciG1 | ~. | ~. | ds- | " | missing | pe-1su1suu1 | ✓ | ✓ |
| ciM | ~. | ~. | ds> | " | missing | pe-1su1suu2 | ✓ | ✓ |
| ciM- | ~. | ~. | dslsx6 | " | missing | pe-1su1suw1 | ✓ | ✓ |
| ciS | ~. | ~. | gr | ' | missing | pe-1su2 | ✓ | ✓ |
| ciS1 | ~. | ~. | gr- | ' | missing | pe-1sut1suw1 | ✓ | ✓ |
| ciSppt1 | ~. | ~. | gr-lsc6 | ' | missing | pe-1sut1sux1 | ✓ | ✓ |
| cilsc3 | ~. | missing | lsal | ' | missing | pe-1sut2 | ✓ | ✓ |
| cippt1 | ~. | ~. | lsam | ' | missing | pe-1sut3 | ✓ | ✓ |
| cipp1lsc3 | ~. | missing | lsb | ' | missing | pe-1suu1su2 | ✓ | missing |
| cippu1 | ~. | ~. | lsc | ' | missing | pe-1suw2 | ✓ | ✓ |
| cippu1lsc3 | ~. | missing | lscm | ' | missing | pe-> | ✓ | ✓ |
| ci~ | ~ | ~ | lsco | ' | missing | pe->1 | ✓ | ✓ |
| cl | ~ | ~ | lscw | ' | missing | pe-su1sut1 | ✓ | ✓ |
| cl!cl>1 | ~~ | ~ | lsd | ' | missing | pe-su2 | ✓ | ✓ |
| cl!cls | ~~ | ~ | lse | ' | missing | pe-su2suy1 | ✓ | ✓ |
| cl!clsut2 | ~~ | ~ | lseq | ' | missing | pe-su3sut1 | ✓ | ✓ |
| cl!pi | ~ | ~ | lsew | ' | missing | pe-su4 | ✓ | ✓ |
| cl!pilsc1lst3 | ~ | missing | lsfid | ' | missing | pe> | ✓ | ✓ |
| cl!pilsc2 | ~ | missing | lsfr | ' | missing | pe>1 | ✓ | ✓ |
| cl!pisu1 | ~ | missing | lsg | ' | missing | pe>2 | ✓ | ✓ |
| cl!pisu1lst2 | ~ | missing | lsi | ' | missing | pe>ppt1 | missing | ✓ |
| cl!po | ~ | ~ | lsim | ' | missing | peG | / | / |
| cl!po-1 | ~ | ~ | lsiv | ' | missing | peS | ✓ | ✓ |
| cl!po> | ~ | ~ | lsk | ' | missing | peSppt2 | ✓ | missing |
| cl!po>ppt1 | ~ | ~ | lsl | ' | missing | peSppt2sut5 | ✓ | missing |
| cl!pr | ~ | ~ | lslb | ' | missing | peSsu1sux1 | ✓ | ✓ |
| cl- | ~ | ~ | lslc | ' | missing | peSsu2 | ✓ | ✓ |
| cl!pi | ~ | ~ | lslen | ' | missing | peSsut1su2 | ✓ | ✓ |
| cl-1su2 | ~ | ~ | lslm | ' | missing | peSsut1suy1 | ✓ | missing |
| cl-> | ~ | ~ | lslp | ' | missing | peSsut2 | ✓ | ✓ |
| cl->1 | ~ | ~ | lslt | ' | missing | peSsut3 | ✓ | ✓ |
| cl-lst2 | ~ | missing | lsm | ' | missing | peSsut5 | ✓ | missing |
| cl-ppt1 | ~ | ~ | lsmoll | ' | missing | peppt1 | ✓ | ✓ |
| cl-ppt2 | ~ | ~ | lsp | ' | missing | pesu1sut1 | ✓ | ✓ |
| cl> | ~ | ~ | lspar | ' | missing | pesu1sut2 | ✓ | missing |
| cl>1 | ~ | ~ | lspfec | ' | missing | pesu1sut3 | ✓ | ✓ |
| cl>pp2 | ~ | missing | lspm | ' | missing | pesu1suu1 | ✓ | ✓ |
| cl>ppt2 | ~ | ~ | lspulcre | ' | missing | pesu1suu1w1 | ✓ | ✓ |
| clM | ~ | ~ | lss | ' | missing | pesu1sux1 | ✓ | ✓ |
| clM- | ~ | ~ | lssb | ' | missing | pesu2 | ✓ | ✓ |
| clMpp2 | ~ | missing | lssc | ' | missing | pesu2sut1 | ✓ | missing |
| clS | ~ | ~ | lssimil | ' | missing | pesu2suv1 | ✓ | ✓ |
| clS- | ~ | ~ | lssimul | ' | missing | pesu3 | ✓ | ✓ |
| clS-1 | ~ | ~ | lssm | ' | missing | pesut2 | ✓ | ✓ |
| clS-2 | ~ | missing | lsst | ' | missing | pesuv1su1sut1 | ✓ | ✓ |
| clS-su2 | ~ | ~ | lssta | ' | missing | pe~ | ' | ✓ |
| clS1 | ~ | ~ | lst | ' | missing | pf | M | M |
| clSsu1sut1 | ~ | ~ | lstb | ' | missing | pf!cl- | M | M |
| clSsu2 | ~ | ~ | lstm | ' | missing | pf!clM- | M | M |
| clSsut1 | ~ | ~ | lstw | ' | missing | pf!clM-ppt1 | M | M |
| | | | lsv | ' | missing | pf!cl~ | M | M |

| | | | | | | | | |
|----------------|---------|---------|--------------------|---|--------------|-------------------|----------------|---------|
| pf!cl~ppt1 | ✓ | pqS- | ✓ | ✓ | ql!cls-2sut1 | ✓ | ✓ | ✓ |
| pf!pr | ✓ | pqS> | ✓ | ✓ | ql!clsppt1 | ✓ | ✓ | missing |
| pf- | ✓ | pqlsfr1 | ✓ | ✓ | ql!clppt1 | ✓ | ✓ | ✓ |
| pf1lsc2 | ✓ | missing | pr | ✓ | ql!pf | ✓ | ✓ | ✓ |
| pf> | ✓ | | pr- | ✓ | ql!pf- | ✓ | ✓ | ✓ |
| pfG | ✓ | | pr-lsc3 | ✓ | missing | ql!po | ✓ | ✓ |
| pfM | ✓ | | pr> | ✓ | ✓ | ql!po-1 | ✓ | ✓ |
| pfM- | missing | | prM | ✓ | ✓ | ql!po-1ppt1 | ✓ | ✓ |
| pfMsut1 | ✓ | | prlsc2 | ✓ | missing | ql!po> | ✓ | ✓ |
| pfMsuu1 | missing | | prlst2 | ✓ | missing | ql!poppt1 | ✓ | ✓ |
| pfs | ✓ | | | ✓ | missing | ql!po~ | ✓ | ✓ |
| pflsc2 | ✓ | missing | pr~ | ✓ | missing | ql!po~ppt1 | ✓ | ✓ |
| pflst2 | ✓ | missing | pt | ✓ | ✓ | ql!vs | ✓ | ✓ |
| pf~ | ✓ | | pu | ✓ | . | ql!vssppt1 | ✓ | ✓ |
| pi | ✓ | | qi | ✓ | ✓ | ql!vssppt1su2 | ✓ | ✓ |
| pi> | ✓ | | qi!cl | ✓ | ✓ | ql!vssppt1sut2 | ✓ | ✓ |
| piM | missing | | qi!cl- | ✓ | ✓ | ql!vssu2 | ✓ | ✓ |
| piM1 | ✓ | missing | qi!cl-> | ✓ | missing | ql!vssu3 | ✓ | ✓ |
| piM1sut1 | ✓ | missing | qi!cl> | ✓ | ✓ | ql!vssut2 | ✓ | ✓ |
| pilsc2 | ✓ | missing | qi!clppt1 | ✓ | ✓ | ql- | ✓ | ✓ |
| pilst2 | ✓ | missing | qi!po | ✓ | ✓ | ql-> | ✓ | missing |
| pisu1 | ✓ | | qi!po> | ✓ | ✓ | ql-ppt1 | ✓ | ✓ |
| pisut1 | ✓ | | qi!vs | ✓ | ✓ | ql-ppt1su1sut2 | ✓ | ✓ |
| po | ✓ | | qi!vssppt1 | ✓ | ✓ | ql-ppt1su1suum1 | ✓ | ✓ |
| po- | ✓ | | qi!vssppt1su1sut2 | ✓ | ✓ | missing | ql-ppt1su1sux1 | ✓ |
| po-1 | ✓ | | qi!vssppt1su2 | ✓ | ✓ | ql-ppt1su2 | ✓ | ✓ |
| po-1pp2su1sux1 | ✓ | | qi!vssu1sut2 | ✓ | ✓ | ql-ppt1su3 | ✓ | ✓ |
| po-1su1sux1 | ✓ | | qi!vssu2 | ✓ | ✓ | ql-ppt1sut2su1 | ✓ | missing |
| po-1su2 | ✓ | | qi- | ✓ | ✓ | ql-ppt1sut2suu1 | ✓ | ✓ |
| po-2 | missing | | qi-ppt1su1sut2 | ✓ | ✓ | ql-ppt1suu2 | ✓ | ✓ |
| po> | ✓ | | qi-ppt1suu1su1sut2 | ✓ | ✓ | ql-ppt2su1suv1su2 | ✓ | ✓ |
| poG | ✓ | | qi-su1sut2 | ✓ | ✓ | ql-su1sut1 | ✓ | ✓ |
| poG- | ✓ | | qi-su1sux1 | ✓ | ✓ | ql-su1sut2 | ✓ | ✓ |
| poG-1 | missing | | qi-su2 | ✓ | ✓ | ql-su1suum1 | ✓ | ✓ |
| poG1 | missing | | qi-sut2 | ✓ | ✓ | ql-su1suum2 | ✓ | ✓ |
| polsc2 | ✓ | missing | qi-sut3 | ✓ | ✓ | ql-su1suv1su2 | ✓ | ✓ |
| posu1sut1 | ✓ | missing | qi-suu1su1sut2 | ✓ | ✓ | missing | ql-su1sux1 | ✓ |
| posu2 | ✓ | | qi> | ✓ | ✓ | ql-su2 | ✓ | ✓ |
| po~ | ✓ | | qi>ppt1 | ✓ | ✓ | ql-su3 | ✓ | ✓ |
| pp1 | ✓ | | qippt1 | ✓ | ✓ | ql-sut1sux1 | ✓ | ✓ |
| pp2 | ✓ | | qippt2sut2 | ✓ | ✓ | ql-sut2 | ✓ | ✓ |
| pp3 | ✓ | | qisu2 | ✓ | ✓ | missing | ql-sut2su1 | ✓ |
| pp4 | ✓ | | qisut1sux1 | ✓ | ✓ | ql-sut2suu1 | ✓ | ✓ |
| pp5 | missing | | qisut2 | ✓ | ✓ | ql-suu2 | ✓ | ✓ |
| ppt1 | - | | ql | ✓ | ✓ | ql> | ✓ | ✓ |
| ppt2 | ✓ | | ql!cl | ✓ | ✓ | ql>ppt1 | ✓ | ✓ |
| ppt3 | ✓ | | ql!cl!cl> | ✓ | ✓ | qlppt1 | ✓ | ✓ |
| ppt4 | ✓ | | ql!cl!cl>ppt1 | ✓ | ✓ | qlppt1su2 | ✓ | missing |
| ppt5 | ✓ | | ql!cl!pi | ✓ | ✓ | qlppt1sut3 | ✓ | ✓ |
| ppu1 | ✓ | | ql!cl!pippt1 | ✓ | ✓ | qlsu2 | ✓ | missing |
| ppu2 | ✓ | | ql!cl- | ✓ | ✓ | qlsut2 | ✓ | ✓ |
| ppu3 | ✓ | | ql!cl-> | ✓ | ✓ | qlsut3 | ✓ | ✓ |
| ppu4 | ✓ | | ql!cl->ppt1 | ✓ | ✓ | sa | ✓ | ✓ |
| ppu5 | ✓ | | ql!cl-ppt1 | ✓ | ✓ | sa!cl | ✓ | ✓ |
| pq | ✓ | | ql!cl> | ✓ | ✓ | sa!cl- | ✓ | ✓ |
| pq!cl | ✓ | | ql!cl>ppt1 | ✓ | ✓ | missing | sa!cl> | ✓ |
| pq!cl- | ✓ | | ql!clM | ✓ | ✓ | sa!cls-1 | ✓ | ✓ |
| pq!cl> | ✓ | | ql!clMppt1 | ✓ | ✓ | sa!cls1 | ✓ | ✓ |
| pq- | ✓ | | ql!cls | ✓ | ✓ | sa!cls1lsc2 | ✓ | missing |
| pq-su2 | ✓ | | ql!cls-2 | ✓ | ✓ | sa- | ✓ | ✓ |
| pq> | ✓ | | ql!cls-2ppt1 | ✓ | ✓ | sa-1 | ✓ | ✓ |
| pqS | ✓ | | ql!cls-2ppt1sut1 | ✓ | ✓ | sa->1 | ✓ | ✓ |

| | | | | | | | |
|----------------|---------|---------|-------------|---------|-------------|---|---------|
| sa-lsfr1 | | missing | su1suu1su2 | | to!ciGhh | ✓ | missing |
| sa-su1sut1 | | missing | su1suu2 | | to!cl | ✓ | ✓ |
| sa-su2sut1 | | | su1suv1 | | to!cl!cl | ✓ | ✓ |
| sa1 | | | su1suv1su2 | | to!cl!cl!cl | ✓ | ✓ |
| sa1!cl-> | | | su1suw1 | | to!cl!pi | ✓ | ✓ |
| sa1!cl> | | | su1sux1 | | to!cl!po | ✓ | ✓ |
| sa> | | | su2 | | to!cl!po-1 | ✓ | ✓ |
| sa>1 | missing | | su2sut1 | | to!cl- | ✓ | ✓ |
| sa>2 | | | su2suv1 | | to!cl!cl- | ✓ | ✓ |
| saG | | | su2suw1 | | to!cl-1 | ✓ | ✓ |
| saM | | | su2sux1 | | to!cl-> | ✓ | missing |
| saM-1 | | | su2suy1 | | to!cl> | ✓ | missing |
| saM-4 | | | su3 | | to!clM | ✓ | missing |
| saM1 | | | su3sut1 | | to!clMlss8 | ✓ | missing |
| saM2 | | | su4 | | to!clS | ✓ | ✓ |
| saM3 | | | su5 | | to!pi | ✓ | ✓ |
| saM4 | | | sut1 | | to!po | ✓ | ✓ |
| saM5 | | | sut1su1sux1 | missing | to!posu2 | ✓ | ✓ |
| saM5ppt1 | | | sut1su2 | | to!pr | ✓ | ✓ |
| saM6 | | | sut1suu1 | | to- | ✓ | ✓ |
| salsfr1 | | | sut1suw1 | | to-1 | ✓ | ✓ |
| sapp1 | | | sut1sux1 | | to-1su1 | ✓ | ✓ |
| sa~ | | | sut2 | | to-1su2 | ✓ | ✓ |
| sc | | | sut2su2 | | to-1suu1 | ✓ | ✓ |
| sc- | | | sut2suu1 | | to-1suu1su2 | ✓ | ✓ |
| sc-1 | missing | | sut2sux1 | missing | to-> | ✓ | ✓ |
| sc1 | | | sut2suy1 | | to> | ✓ | ✓ |
| sc> | | | sut3 | | to>1 | ✓ | ✓ |
| scG | | | sut3suw1 | | to>2 | ✓ | missing |
| scG-1 | | | sut3sux1 | | to>pp2 | ✓ | ✓ |
| scG1 | | | sut3suy1 | | toG | ✓ | ✓ |
| scM | missing | | sut4 | | toM | ✓ | ✓ |
| scM1 | | | sut5 | | toM- | ✓ | missing |
| scM2 | | | suu1 | | toM1 | ✓ | ✓ |
| scS | | | suu1su1sut2 | | toM2 | ✓ | ✓ |
| sc~ | | | suu1su2 | | toM2- | ✓ | ✓ |
| sf | | | suu1sut1su2 | | toM3 | ✓ | ✓ |
| sf- | | | suu2 | | toS | ✓ | ✓ |
| sf> | missing | | suu2su2 | | toS!cl | ✓ | missing |
| sfG | missing | | suu3 | | toS!cl- | ✓ | missing |
| sfG1 | missing | | suu5 | | toS!cl-lsi8 | ✓ | missing |
| sfM | ✓ | | suv1 | | toS!cllsi8 | ✓ | missing |
| sfM1 | missing | | suv1su1sut1 | | toS1 | ✓ | ✓ |
| sfS | | | suv1su2 | | toS2 | ✓ | ✓ |
| sfsc3 | | | suw2 | | toS2su2 | ✓ | ✓ |
| st | , | | ta | | toS2sut1 | ✓ | ✓ |
| st- | , | | ta- | | toS2sut2 | ✓ | ✓ |
| st> | , | | ta> | | toS2sux1 | ✓ | ✓ |
| stS | , | | ta>ppt1 | | toS3 | ✓ | ✓ |
| su1 | . | | talsc3 | | toS3lst2 | ✓ | missing |
| su1sut1 | | | talst2 | | toS4 | ✓ | ✓ |
| su1sut1su1sut1 | | | tg | | toSs2 | ✓ | ✓ |
| su1sut1su2 | | | tg1 | | tolsc3 | ✓ | missing |
| su1sut1sux1 | | | tgM | | tolsc4lst3 | ✓ | missing |
| su1sut1suy1 | | | tgS | | tolst2 | ✓ | missing |
| su1sut2 | | | tgS- | | toppt1 | ✓ | ✓ |
| su1sut2su1 | | | tgS1 | | toppu1 | ✓ | ✓ |
| su1sut3 | | | tgS2 | missing | tr | ✓ | ✓ |
| su1suum1 | | | tgS3 | | tr- | ✓ | missing |
| su1suum1su1 | | | tgS4 | | tr-1 | ✓ | ✓ |
| | | | tgSsuum1 | | tr-1su2 | ✓ | ✓ |
| | | | to | | tr-2 | ✓ | missing |
| | | | to!ciG | | tr-3 | ✓ | ✓ |
| | | | | | tr~ | ✓ | ✓ |

| | | | | | |
|----------------|-----|-----------------|---------|------------------|---------|
| tr~1 | ✓ | vi-su1suw1 | ✓ | visu1sut1su1sut1 | ✓ |
| tr> | ✓ | vi-su1sux1 | ✓ | visu1sut1su2 | ✓ |
| trG | ✓ | vi-su2 | ✓ | visu1sut1sux1 | ✓ |
| trG1 | ✓ | vi-su2sut1 | ✓ | visu1sut1suy1 | ✓ |
| trG2 | ✓ | vi-su2suw1 | missing | visulsut2 | ✓ |
| trM | ✓ | vi-su2sux1 | ✓ | visu1suum1 | ✓ |
| trS | ✓ | vi-su3 | ✓ | visu1suum1su2 | ✓ |
| trS- | ✓ | vi-su4 | ✓ | visu1suv1 | ✓ |
| trS1 | ✓ | vi-sut1su2 | ✓ | visu1suw1 | ✓ |
| trSut2 | ✓ | vi-sut1suum1 | ✓ | visu1sux1 | ✓ |
| trlst2 | ✓ | vi-sut2 | missing | visu2 | ✓ |
| trsu3 | ✓ | vi-sut2sux1 | missing | visu2lsc3 | ✓ |
| tr~ | ✓ | vi-sut3 | ✓ | visu2sut1 | missing |
| ts | ” | vi-sut3 | ✓ | visu2suw1 | ✓ |
| ts- | ” | vi-sut3sux1 | ✓ | missing | ✓ |
| ts> | ” | vi-sut4 | ✓ | visu2sux1 | ✓ |
| tsM | ” | vi-suum1su2 | ✓ | visu3 | ✓ |
| tsM- | ” | vi-suum1sut1su2 | ✓ | visu5 | ✓ |
| tsM> | ” | vi-suum2 | ✓ | missing | ✓ |
| tslsx6 | ” | vi-suum2su2 | ✓ | visut1su2 | ✓ |
| tv | /// | vi-suum3 | ✓ | visut1sux1 | ✓ |
| tv- | /// | vi> | ✓ | visut2 | ✓ |
| vi | / | vi>pp2 | ✓ | visut2su2 | ✓ |
| vi- | / | vi>ppt2 | ✓ | missing | ✓ |
| vi!ci | / | vi>ppt3 | ✓ | visut2suy1 | ✓ |
| vi!vi!vi | / | vilsc3 | ✓ | visut3 | ✓ |
| vi!vi!vi | / | vilst1 | ✓ | visut3suum1 | ✓ |
| vi-> | / | vipp2 | ✓ | missing | ✓ |
| vi-lst3 | / | vipp3 | ✓ | visut3suy1 | ✓ |
| vi-pp2 | / | vipp4 | ✓ | missing | ✓ |
| vi-pp4 | / | vipp1su1sut1 | ✓ | visut4 | ✓ |
| vi-ppt2 | / | vipp1su2 | ✓ | visuu1su2 | ✓ |
| vi-ppt3 | / | vipp1su2lsc3 | ✓ | visuu2su2 | ✓ |
| vi-su1sut1 | / | vipp2 | ✓ | visuu3 | ✓ |
| vi-su1sut1su2 | / | vipp2suum5 | ✓ | visuu5 | ✓ |
| vi-su1sut2 | / | vipp3 | ✓ | visuv1su2 | ✓ |
| vi-su1sut2su1 | / | vippu1su2 | ✓ | vs | ✓ |
| vi-su1suum1 | / | vippu1su2lsc3 | ✓ | vs- | ✓ |
| vi-su1suum1su1 | / | visu1sut1 | ✓ | vs-> | ✓ |
| vi-su1suum1su2 | / | | | missing | ✓ |
| vi-su1suum2 | / | | | vslsc3 | ✓ |
| | | | | vslst2 | ✓ |
| | | | | vs~ | ✓ |
| | | | | missing | ✓ |

Table with nabc strings and corresponding grelaon glyphs:

| | | | | | | |
|--------------------|--|---------------------|--|---------------|--|--------------------|
| bv | | cl1!pi!tosun1 | | lssimpl | | pelsa2 |
| bvlsa2 | | cl1!pi!vi | | lssp | | pelsc2 |
| bvsun4 | | cl1!pi> | | lsst | | pelsl2 |
| ci | | cl1!pilsm3lsa6 | | lst | | pelsm2 |
| cilsf1 | | cl1!pilsn8 | | lsth | | pelsn2 |
| cilsn8 | | cl1!pilsn9 | | ltdo | | pelsn3 |
| cl | | cl1!pilst9 | | ltdr | | pelsst1lsm4 |
| cl!cl!cl | | cl1!cl!cl1 | | ltdx | | pelsst2 |
| cl!cl!cl!llsn9 | | cl1!cl!cl!llsn9 | | lti | | pelst2 |
| cl!cl!clsun1lsa5 | | cl1!cl!clsun1lsa5 | | ltps | | pesu2 |
| cl!cl!pi | | cl1!cl!pi | | ltqm | | pesu2lst3 |
| cl!cl!pi!vi | | cl1!cl!pi!vi | | ltsb | | pesu2sun1 |
| cl!cl!po | | cl1!cl!po | | ltse | | pesun3 |
| cl!cl!to | | cl1!cl!to | | ltsj | | pesun3lss1lsa3 |
| cl!or | | cl1!or | | ltsl | | pf |
| cl!orpp2 | | cl1!orpp2 | | ltsn | | pf1 |
| cl!pe | | cl1!pe | | ltsp | | pf2 |
| cl!pelsc2 | | cl1!pelsc2 | | ltsr | | pf> |
| cl!pelsn7 | | cl1!pelsn7 | | ltst | | pf>1 |
| cl!pelst2 | | cl1!pelst2 | | ltus | | pf>2 |
| cl!pi!vi> | | cl1!pi!vi> | | ni | | pfM |
| cl!po | | cl1!po | | oc | | pfMlsmd3 |
| cl!popp3 | | cl1!popp3 | | oc!cl | | pfS |
| cl!to | | cl1!to | | oc!clm | | pfppn1ppq1sun1lsa5 |
| cl!to!cl!cl | | cl1!to!cl!cl | | oc!pe | | pfsun1 |
| cl!to!pi | | cl1!to!pi | | oc!pe!pu | | pfsun1lsn5 |
| cl!to!pi!cl | | cl1!to!pi!cl | | oc!vi | | pf~ |
| cl!to!pi!clpp2 | | cl1!to!pi!clpp2 | | oc!visun1 | | pf-1 |
| cl!to!pi!clpp2lsn9 | | cl1!to!pi!clpp2lsn9 | | ocG | | pi |
| cl!to!pipp2 | | cl1!to!pipp2 | | ocG1 | | po |
| cl!to> | | cl1!to> | | oclst8 | | po> |
| cl!tolst9 | | cl1!tolst9 | | or | | po>1 |
| cl!topp2 | | cl1!topp2 | | or1 | | po>pp2 |
| cl!toppz1su1sun1 | | cl1!toppz1su1sun1 | | or2 | | po>ppn1 |
| cl!tosu1 | | cl1!tosu1 | | or3 | | po>ppz1 |
| cl!tosu1lsc6 | | cl1!tosu1lsc6 | | or4 | | poG |
| cl!tosu1lsc6lst8 | | cl1!tosu1lsc6lst8 | | or5 | | poM |
| cl!tosun1lsa5 | | cl1!tosun1lsa5 | | or6 | | poMsun1 |
| cl1!or | | cl1!or | | pe | | polsf2lst3 |
| cl1!orlsc3 | | cl1!orlsc3 | | pe!or | | polst2 |
| cl1!orlss3 | | cl1!orlss3 | | pe!pu | | popp2 |
| cl1!orpp2 | | cl1!orpp2 | | pe!ta | | popp2su1sux1 |
| cl1!orsun1 | | cl1!orsun1 | | pe!ta>2lsa2 | | poppn1 |
| cl1!orsun1lsa5 | | cl1!orsun1lsa5 | | pe!talsa2 | | posu1sun1 |
| cl1!pi | | cl1!pi | | pe!talsc1lst2 | | posun1lsa5 |
| cl1!pi!cl | | cl1!pi!cl | | pe!un | | posux1 |
| cl1!pi!orsun1 | | cl1!pi!orsun1 | | pe!unlsc2 | | posux1lsa5 |
| cl1!pi!pesu2 | | cl1!pi!pesu2 | | pe> | | posux1 |
| cl1!pi!pi!vi | | cl1!pi!pi!vi | | pe>1 | | posux1lsa5 |
| cl1!pi!pisun1lsa5 | | cl1!pi!pisun1lsa5 | | pe>1lsa6 | | pp1 |
| cl1!pi!to | | cl1!pi!to | | peG | | pp2 |
| cl1!pi!tosu1 | | cl1!pi!tosu1 | | peG1 | | pp2ppn1 |
| | | | | peGlsf1 | | pp3 |

| | | | | |
|------------------|--------------------|-------------|------------------|---|
| pp4 | ql!cl!tr>ppz1 | qlsux1 | to | ለ |
| ppn1 | ql!clppn1 | sa | to!cl | ለ |
| ppn1pp1 | ql!po | sa1 | to!cl!cl | ለ |
| ppn1pp1ppz1 | ql!po> | sa1lsc4 | to!cl!clls9 | ለ |
| ppn1ppq1 | ql!po>ppn1 | sa1lsc6 | to!cl!clsu1 | ለ |
| ppn1ppz1 | ql!polsa1lsa3lsa9 | sa1sun1lsa5 | to!cl!clsun2 | ለ |
| ppn1ppz1ppq1 | ql!polsm1 | sa> | to!cl!clsun2lsa5 | ለ |
| ppn2 | ql!poppn1 | salsc4 | to!cl!orsun1 | ለ |
| ppn2ppz1 | ql!popppn1lst2 | salsc6 | to!cl!pi | ለ |
| ppn2ppz1ppq1 | ql!poppn1sun1 | sc | to!cl>1 | ለ |
| ppn3 | ql!poppn1sux1 | sc1 | to!clM | ለ |
| ppn3ppz1 | ql!popppz1 | sc1lsc4 | to!clsu1sun1 | ለ |
| ppn4 | ql!popppz1lsa3 | sclst2 | to!clsu1sun1lsm6 | ለ |
| ppq1 | ql!popppz1su1sun1 | sf | to!clsu2 | ለ |
| ppz1 | ql!posu1sun1 | sfG | to!clsu2lsn6 | ለ |
| ppz1ppq1 | ql!posun1 | su1 | to!clsun1 | ለ |
| pq | ql!posun1 | su1sun1 | to!clsun1lsa5 | ለ |
| pq1 | ql!posux1 | su1sun1su2 | to!or | ለ |
| pr | ql> | su1sun2 | to!orlsc6 | ለ |
| pt1 | ql>ppn1 | su1sux1 | to!orlst3 | ለ |
| pt1ppn1 | ql>ppn1lsc3 | su2 | to!orsun1lsa5 | ለ |
| pt2 | qllsst2 | su2sun1 | to!pi!cl | ለ |
| pt3 | qlppn1 | su3 | to!pi!cl!pi!pi | ለ |
| pu | qlppn1ppz1 | su4 | to!po | ለ |
| pu1 | qlppn1ppz1lst2 | sun1 | to!pohd | ለ |
| pulsnt3 | qlppn1ppz1su1sun1 | sun1su1 | to!to | ለ |
| puppp1su1sun1 | qlppn1ppz1sun1lsa5 | sun1su1sun1 | to!to!pi!clpp2 | ለ |
| puppp1su2 | qlppn1su1sun1 | sun1su2 | to!toppn1sun1 | ለ |
| puppp2su1sun1 | qlppn1su1sun2 | sun2 | to!tosun1 | ለ |
| puppp2su2 | qlppn1su2lsn1 | sun2su1 | to> | ለ |
| puppn1su1sun2 | qlppn1su1sun2 | sun3 | to>2 | ለ |
| puppn1su1sun2 | qlppn1su2sun2 | sun4 | to>2lsa3 | ለ |
| puppn1su2 | qlppn1su2lsn1 | sux1 | to>2lsc1lsa3 | ለ |
| pusu1sun1 | qlppn1sun1 | ta | to>lsa5 | ለ |
| pusu1sun1lsf1 | qlppn1sun1lsc5 | ta> | to>pp2 | ለ |
| pusu1sun1lst7 | qlppn1su2 | ta>1 | toG | ለ |
| pusu1sun2 | qlppn1su2lsn1 | ta>2 | toGlsa1lst8 | ለ |
| pusu1sun2ls5 | qlppn1sun1 | ta>lsc2 | toGlsa5 | ለ |
| pusu2sun1 | qlppn1sun1lsa5 | ta>lsn2 | toS | ለ |
| pusu3 | qlppn1sun1su2 | ta>pp2 | toS!pe | ለ |
| pusu4 | qlppn2sun1 | ta>ppn1 | toS!to | ለ |
| ql | qlppn2sun2 | tasu2 | toS!tolst9 | ለ |
| ql!cl | qlppn2sun2lsa5lsa5 | tg | toS1 | ለ |
| ql!cl!or | qlppz1su1sun1 | tg!cl | toSlsa5 | ለ |
| ql!cl!orppn1ppz1 | qlppz1su2 | tg!cl>1 | toSsun1lsa5 | ለ |
| ql!cl!to | qlsu1sun1 | tg!cllsn9 | tolsf4 | ለ |
| ql!cl!to!or | qlsu1sux1 | tg!or | tolsn8 | ለ |
| ql!cl!to!orsun1 | qlsu2 | tglsn8 | tolnsnt2lst9 | ለ |
| ql!cl!tolst6 | qlsun1 | tglst9 | tolst9 | ለ |
| ql!cl!toppn1 | qlsun1lsa5 | tgsun1lsa5 | tolsth8 | ለ |
| ql!cl!tosu3 | qlsun1su2 | | topp1su1 | ለ |
| ql!cl!tosu3lst6 | qlsun2 | | topp1su1lsa6 | ለ |
| ql!cl!tr> | qlsun2lsa5 | | topp2 | ለ |
| | | | topp2sun1 | ለ |

| | | | |
|-------------------|------------------------|-------------------|------------------------|
| toppn3ppz1sun1 | tssun1lsa5 | unsun2su2 | vippn1su1sun1lst2 |
| tosu1 | tv | unsun3 | vippn1su2 |
| tosu1lsc5 | tvlsm2 | unsun3lsa3 | vippn1sux1 |
| tosu1sun1 | un | unsun3lsa6 | vippn2 |
| tosu1sun1lsc6lst7 | un!clG | unsux1 | vippn2lsa4 |
| tosu1sun1lsn6 | un1 | vi | vippn2lsc4 |
| tosu2 | un1lst8 | vi> | vippn2lst3lsa4 |
| tosu2lst6 | un1ppn1ppq1sun2 | vi>1 | vippn2ppz1ppq1 |
| tosun1 | un1ppn1sun1su2lsa5 | vi>1lsa2lsc8 | vippn2ppz1ppq1lst2lsa8 |
| tosun1lsa5 | un1ppn1sun2 | vi>1pp2 | vippn2ppz1sun1lsa5 |
| tosun1su1sun1 | un1sun1su1sun1lsa3lsc4 | vi>1ppn1ppz1ppq1 | vippn2sun1lsa4 |
| tosun1su2lsn3lst6 | un1sun1su2 | vi>1ppz1ppq1 | vippn3 |
| tosun2 | un1sun1su2lsa5 | vi>2 | vippn3su4 |
| tosun2lsa6 | un1sun2 | vi>lsa6 | vippn3sun1lsa5 |
| to~ | un1sun2su2 | vi>lsc6 | vippn4 |
| tr | un2 | viS | vippq1 |
| tr> | un2lsm1 | vilss1 | vippz1ppq1 |
| trS | unlsm1 | vilss2 | visu1sun1 |
| trSlsc1 | unlsm2lss3lst8 | vilsst1 | visu1sun1su1 |
| trlss1lss3 | unlst1 | vilst1 | visu1sun1su1lst6 |
| trlst3lshp7 | unlst2 | vilst2 | visu1sun2 |
| trs2 | unlst8 | vilst2lsa8 | visu1sun1su2lss1lst6 |
| trs2lst3lsm8 | unppn1ppz1sun1 | vilst9 | visu1sun2lsc2 |
| trsun1lsa3lsa5 | unppn1ppz1sun1lsa5 | vipp2ppn1 | visu1sun2lsa5 |
| trsun1lsa5 | unppn1sun1su2 | vipp2su2 | visun1su1sun1 |
| trsun1su2 | unppn1sun2 | vipp2sun1lsa5 | vs |
| trsun1su2lsa3 | unppn1sun2lsa5 | vipp3 | vsG |
| trsun2 | unppn1sux1 | vipp3lsn3 | |
| trsun2lsa5 | unppn1sux1lsa5 | vipp4 | |
| trsux1 | unppn3sun1lsa5 | vipp4lst2 | |
| trsux1lsa5 | unsun1su1 | vippn1pp1ppz1 | |
| trsux1lst8 | unsun1su1lst2lsc6 | vippn1pp1ppz1lst8 | |
| ts | unsun1su2 | vippn1pp1su1sun2 | |
| ts1 | unsun2 | vippn1ppq1 | |
| ts> | unsun2lsa5 | vippn1ppz1ppq1 | |
| ts>1 | unsun2 | vippn1su1 | |
| ts>lsc2 | unsun2 | vippn1su1sun1 | |
| ts>lsc6 | unsun2lsa5 | | |
| tslsa2 | unsun2su1 | | |
| tslsc2lst2 | unsun2su1 | | |

manuscript sources of the gregall font

The list of glyphs uses following abbreviations for manuscript references; the page number is always for the start of some antiphon, responsory, mass propers, even when the actual neume is on a later page. At the end of lines, GT stands for Graduale Triplex, Solesmes, 1979, OT for Offertoriale Triplex, Solesmes, 1985, AM for Antiphonale Monasticum, Solesmes, 1934, ARII for Antiphonale Romanum II, Solesmes, 2009 and NR for Nocturnale Romanum, Hartker Verlag, 2002, followed by page number which also contains the corresponding propers, antiphons or responsories.

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Cantatorium codex 359

C1 = http://www.e-codices.unifr.ch/en/download/csg-0359_001/max
C25U Universi GT16
C26A Alleluia Ostende GT16
C26D Dilexisti iustitiam GT499
C27E Ex Sion GT18
C27Q Qui sedes GT22
C28A Alleluia. Excita Domine GT23
C28T Tollite portas GT25
C32B Benedictus es in firmamento GT664
C35Q Qui regis Israel intende
C37A Alleluia. Veni, Domine GT36
C38T Tecum principium GT42
C38A Alleluia Dominus dixit GT43
C39B Benedictus qui GT45
C40A Alleluia Dies sanctificatus GT49
C40V Viderunt omnes GT48
C42A Alleluia. Hic est discipulus GT636
C43A Anima nostra GT453
C43L Laus tibi Christe
C44E Ecce sacerdos GT486
C44D Diffusa est gratia GT408
C45S Speciosus forma GT54
C46O Omnes de Saba GT57
C46B Benedictus Dominus GT257
C46A Alleluia Vidimus stellam GT58
C47I Iuravit Dominus GT486
C49I Inveni David GT445
C50G Gloriosus Deus GT456
C52T Timebunt gentes GT265
C52P Posuisti Domine GT477
C53S Suscepimus Deus GT360
C53A Alleluia. Adorabo ad templum GT270
C54A Audi filia GT417
C56B Beatus vir GT475
C56D Desiderium animae GT432
C57B Beatus vir GT481
C58A Adiutor GT69
C59D De profundis GT673
C60S Sciant gentes GT88
C60C Commovisti Domine GT89
C61T Tu es Deus GT275
C61I Iubilate Domino GT185
C62M Miserere mei GT63
C64Q Qui habitat GT73
C67D Dirigatur GT340
C71L Laudate Dominum GT187
C73P Propitius esto GT288
C74B Bonum est GT327
C78O Oculi omnium GT343
C79L Leatatus sum GT336
C80Q Qui confidunt GT109
C81E Exsurge Domine GT114
C82B Beata gens GT333
C82R Respice Domine GT320
C82V Venite filii GT298
C84T Tibi Domine GT118
C87E Exaltabo te GT112
C88T Tollite hostias GT272
C89T Tenuisti manum GT133
C95D Domine exaudi GT172
C97D Domine audivi
C100C Crux fidelis GT182
C103C Cantemus Domino GT186
C104V Vinea facta GT188
C107A Alleluia Pascha nostrum GT197
C118C Clamaverunt iusti GT454
C122I In omnem terram GT427
C123C Constitues eos GT426

C132D Domine praevenisti GT509

C134B Benedicte Dominum GT608

C137A Audi filia GT406

C139A Alleluia Benedictus es GT375

C139B Benedictus es GT372

C145L Liberasti nos GT366

C148A Alleluia Domine refugium GT321

C148Q Alleluia Quoniam Deus GT327

C148V Alleluia Venite GT324

C149A Alleluia. Paratum cor meum GT344

C150L Alleluia Laetatus GT19

C153S Alleluia Sancti tui, Domine, benedicent GT463

C153B Alleluia Beatus vir qui suffert GT511

C154A Alleluia Gaudete iusti GT430

Einsiedeln codex 121

E1 = http://www.e-codices.unifr.ch/en/download/sbe-0121_001/max

E2R Respice in me OT5

E2D Dominus dabit GT17

E3D Deus tu convertens GT20

E10P Prope est Dominus GT35

E11C Confortamini OT9

E13P Prope es tu GT24

E16B Benedictus es

E20E Exsulta satis GT28

E23T Tollite portas OT14

E26L Lux fulgebit GT44

E29E Exsulta filia sion GT47

E31T Tui sunt caeli OT18

E33V Viderunt omnes GT50

E34I In virtute tua OT152

E35E Elegerunt apostoli OT161

E39E Exiit sermo inter GT636

E42A Anima nostra GT466

E51R Reges tharsis OT21

E64L Laetamini in Domino OT140

E69P Posuisti Domine GT477

E75G Gaudeamus omnes GT545

E82D De profundis GT673

E92I Immutemur GT65

E104S Sicut oculi GT77

E125P Precatus est Moyses GT317

E130I Illumina oculos GT290

E131O Oculi mei semper GT96

E133I Iustitiae Domini GT309

E147L Laetare Ierusalem GT108

E148L Laudate Dominum GT110

E155B Benedicte gentes Domino GT231

E158D Domine ad adiuvandum OT42

E161S Sipientes venite GT114

E162F Factus est Dominus GT119

E166C Confitebor tibi Domine OT44

E173E Eripe me GT129

E193D Domine, exaudi orationem OT53

E195D Dominus Iesus GT165

E205R Resurrexi GT196

E213C Alleluia Christus resurgens GT226

E248V Viri Galilaei GT235

E255S Spiritus Domini GT252

E256C Confirmata hoc OT79

E262S Sapientiam sanctorum GT452

E272M Mihi autem nimis OT128

E293V Vindica Domine

E320I Inclina aurem GT300

E327O Oravi Deum meum OT107

E324R Respice, Domine GT320

E336I In voluntate tua GT346

E339S Si iniquitates GT350

E373B Benedictus es GT372

Hartker codex 390/391

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H1 = http://www.e-codices.unifr.ch/en/download/csg-0390_001/max | H392L Libera me Domine de viis NR[200] |
| H195 = http://www.e-codices.unifr.ch/en/download/csg-0391_001/max | H392I Libera me Domine de morte NR[201] |
| H16A Aspiciebam in visu NR111 | H398E Emite Domine sapientiam NR571 |
| H16M Missus est Gabriel NR111 | H401A Audi fili mi |
| H16V Ave Maria NR113 | H405S Scio Domine |
| H22S Sicut mater consolator NR127 | H406D Desiderium meum |
| H23E Egregieatur Dominus de Samaria NR129 | H406A Auditu auris |
| H24S Super solium David AM206 | H407P Peto Domine NR587 |
| H25E Ecce mitto Angelum AM201 | H411D Domine rex NR599 |
| H26G Grata facta est NR25* | H411C Conforta me NR597 |
| H28Q Qui venturus est NR134 | H414E Exaudiatur Dominus NR602 |
| H29E Ecce radix Jesse NR137 | H424M Magnificat |
| H30T Tu es qui venturus es AM199 | H428A Ascendens Iesus AM593 |
| H32N Nasceret nobis NR149 | H443V Venite exsultemus NRXXVIII |
| H33I Iuravi dicit Dominus NR151 | St. Gall codex 339 |
| H34F Festina ne tardaveris NR130 | G1 = http://www.e-codices.unifr.ch/en/download/csg-0339_033/max |
| H35G Germinaverunt campi NR144 | G56 = http://www.e-codices.unifr.ch/en/download/csg-0339_088/max |
| H36A Adnuntiatum est | G57 = http://www.e-codices.unifr.ch/en/download/csg-0339_088a/max |
| H430 Orietur sicut sol AM234 | G58 = http://www.e-codices.unifr.ch/en/download/csg-0339_089/max |
| H45H Hodie nobis caelorum NR162 | G8E Exulta satis OT11 |
| H48B Beata et venerabilis | G9A Alleluia Veni Domine GT36 |
| H49C Confirmatum est cor Virginis NR208 | G11P Puer natus est GT47 |
| H50Q Quem vidistis pastores AM240 | G11V Viderunt omnes GT48 |
| H72V Venit lumen tuum AM290 | G12T Tui sunt caeli OT18 |
| H72H Hodie in Iordane NR229 | G20I Jubilate Deo universa terra GT227 |
| H73O Omnes de Saba NR237 | G22D Domine quinque talenta GT515 |
| H73S Stella ista NR242 | G25P Posuisti Domine GT477 |
| H74I Illuminare, illuminare NR236 | G30E Exsurge quare obdormis GT91 |
| H75I In columbae specie NR231 | G35D Domine vivifica me OT31 |
| H75V Videntes stellam NR242 | G42D Domine Deus salutis OT112 |
| H77S Stella ista AM291 | G44P Precatus est Moyses GT317 |
| H77A Ab Oriente AM297 | G45D Domine in auxilium OT106 |
| H87E Exaudi Deus | G51I Intende voci GT280 |
| H103S Spes nostra salus NR512 | G51S Si ambulabem GT125 |
| H103M Magnus Dominus NR516 | G57F Factus est Dominus GT119 |
| H104T Te Deum patrem | G89D Domine Deus in simplicitate OT159 |
| H112S Stans a dextris AM798 | G113A Alleluia. Dilexit Andream GT625 |
| H114C Corde et animo AM1033 | G116C Cantabo Domino GT283 |
| H114N Nativitas tua AM1035 | G126D Alleluia. Domine Deus meus GT282 |
| H118G Gaude, Maria Virgo NR130* | G128A Alleluia. Attendite popule |
| H119C Cum inducerent | G132A Alleluia. Mirabilis Dominus GT462 |
| H153V Vado ad patrem | G132V Alleluia. Vox exultationis |
| H173I Insurrexerunt in me NR364 | G139A Asperges me Domine |
| H173C Contumelias et terrores NR365 | G140O Oremus dilectissimi nobis |
| H179L Liberavit Dominus ARII183 | G141O Omnipotens Deus |
| H179A Amicus meus osculi NR381 | St. Gall codex 376 |
| H179I Judas mercator NR382 | N1 = http://www.e-codices.unifr.ch/en/download/csg-0376_001/max |
| H179U Unus ex discipulis NR383 | N39H Hodie cantandus est nobis |
| H180U Una hora non potuistis NR388 | N53A Audite fratres dilecti |
| H219T Tradiderunt me NR408 | N59N Nativitatem venerandam |
| H219I Iesum tradidit impius NR409 | N65G Gloriatissima laus tua Deus |
| H225M Mulieres sedentes AM449 | N67G Gloria in excelsis Deo |
| H239R Redemptor noster | N68G Gloria in excelsis Deo |
| H259O O crux splendidior AM898 | N69G Gloria in excelsis Deo |
| H266D Domino si in tempore | N73G Kyrie eleison |
| H269S Spiritus Sanctus | N86D Dilexisti iustitiam GT498 |
| H269D Dum complerentur NR493 | N100T Tui sunt caeli OT18 |
| H269R Repleti sunt omnes NR494 | N171D Deus exaudi orationem GT107 |
| H270S Spiritus Domini AM520 | N221N Alleluia. Non vos relinquam GT242 |
| H271L Loquebantur variis AM521 | N270A Alleluia. Benedictus es GT375 |
| H296S Sicut cedrus exaltata NR[165] | N293A Alleluia. Sancti tui, Domine, benedicent GT463 |
| H297B Beatam me dicent NR[172] | N296V Alleluia. Veni Sancte Spiritus GT263 |
| H305H Hodie nata est NR278* | N363C Carmen suo dilecto |
| H305G Gloriosae virginis Mariæ NR279* | N368L Letamente canamus Domino nostro |
| H306N Nativitas gloriosae NR280* | N372O O quam mira sunt Deus |
| H307N Nativitas tua NR281* | St. Gall codex 374 |
| H307F Felix namque NR[171] | A1 = http://www.e-codices.unifr.ch/en/download/csg-0374_001/max |
| H316N Numquid scis | A17T Tui sunt caeli OT18 |
| H320R Regem confessorum | A22V Vox in Rama GT638 |
| H322B Beatus Gallus zelo | A26F Fili quid fecisti GT51 |
| H322C Columbanus itaque beato | A56C Custodi me Domine GT304 |
| H323B Beatus Gallus cum | A127E Exultabunt sancti OT143 |
| H323D Domine Iesu Christe | A167O Oravi Deum meum OT107 |
| H324P Pater sanctus | A174A Alleluia. Eripe me GT308 |
| H324V Vir Deo plenus | Bamberg, lit. 6, Gradual of St. Emmeram |
| H325I Iste sanctus digne | B9v = http://bsbsbb.bsb.lrz-muenchen.de/~db/0000/sbb00000128/images/index.html?id=0000128no=19&seite=22&signatur=Msc.Lit.6 |
| H328F Fundata est domus NR[140] | B9vA Anima nostra GT466 |
| H334I In civitate Domini | |
| H338D Dixerunt discipuli | |
| H367V Viri sancti NR[54] | |
| H390C Credo quod Redemptor NR[186] | |

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|------------------|-----------|---------------|---------------|------|
| virga | | | | |
| vi | C780 | tu | | |
| vilsc3 | C82R | testamentum | | |
| vilst1 | E29E | rex | 2.166x | |
| vi- | C80Q | montes | | |
| vi> | C27E | eius | | |
| vi-lst3 | H50Q | Quem | | |
| vi-> | E20E | sanctus | 2.166x | |
| tractulus | | | | |
| ta | C26A | Domine | | |
| talsc3 | E262S | saeculum | 2.166x | |
| talst2 | C56D | Desiderium | | |
| ta- | C81E | antiquis. | | |
| ta> | C25U | et | | |
| suv1 Cf. ✓ | pesu2suv1 | | | |
| punctum | | | | |
| pu | C137A | Audi | | |
| Cf. ✓ | | | | |
| Cf. ✓ | | | | |
| gravis | | | | |
| gr | H271L | Loquebantur | | |
| gr- | H270S | Spiritus | | |
| gr-lsc6 | H270S | replevit | | |
| clivis | | | | |
| cl | C780 | sperant | | |
| cllsc3 | C26A | nobis | | |
| cllst2 | C25U | exspectant | | |
| cl-lst2 | C52P | pretiosio. | | |
| cl- | C780 | omnium | | |
| cls- | C81E | opem | | |
| c1S | C780 | opportuno. | | |
| cls1 | H424M | potentiam | | |
| c1M | C148V | nostro | | |
| Cf. ✓ | cl> | | | |
| ✓ | cl>1 | H36A | virginis | |
| Cf. ✓ | vi> | | | |
| ✓ | cl->1 | H50Q | natum | |
| ✓ | cl-> | H50Q | angelorum | |
| ✓ | c1M- | C27Q | super | |
| ✓ | cls-1 | H428A | navem | |
| ✓ | cls-2 | H334I | suavissimus | 2.0x |
| pes | | | | |
| pe | C80Q | Domine | | |
| pe- | C80Q | aeternum | | |
| pe-1 | C64Q | Scapulis | | |
| peS | C780 | in | | |
| peG | B9vA | erepta | 0.5x | |
| Cf. ✓ | peG | | | |
| ✓ | pe> | C100C | germine | |
| ✓ | pe>1 | C27E | eius | |
| ✓ | pe>2 | C71L | misericordia | |
| ✓ | pe-> | N296V | tuorum | |
| Cf. ✓ | ta> | | | |
| ✓ | pe->1 | H35G | Germinaverunt | 1.7x |
| porrectus | | | | |
| po | C139B | super | | |
| polsc2 | C82R | iudica | | |
| po- | G20I | anime | 0.85x | |
| po-1 | C26A | tuum | | |
| poG | C40V | salutare | | |
| po> | C80Q | commovebitur | | |
| po~ | C58A | aeternum | | |
| poG- | A1670 | meum | | |
| posu2 | C460 | gloria | | |
| po-1su2 | H269R | alleluia | | |
| posu1suti1 | C80Q | saeculum. | | |
| torculus | | | | |
| to | C780 | Domine | | |
| tolsc3 | C39B | nomine | | |
| tolsc4lst3 | E125P | Domine, | 2.166x | |
| tolst2 | C74B | misericordiam | | |
| to- | G44P | animae | | |
| to-1 | C139A | nostrorum | | |
| toS | C38A | hodie | | |

| | | | | | |
|-------|-------------------|--|-------|---------------------------------|--------|
| ✓ | toS1 | | E205R | Resurrexi, | 0.5x |
| ✓ | toS2 | | E161S | Sitientes | 1.75x |
| ✓ | toS3 | | C104V | circumfodit | |
| ✓ | toG | | G12T | eius | |
| ✓ | toM | | C49I | servum | |
| ✓ | toM1 | | H22S | auxilium | 1.71x |
| ✓ | toM3 | | C39B | mirabile | |
| ✓ | to> | | C26A | misericordiam | |
| Cf. ✓ | pe> | | | | |
| ✓ | toS3lst2 | | C59D | tuae | |
| ✓ | pq!cl- | | C87E | sanasti | 2.166x |
| ✓ | to>1 | | E130I | obdormiam | 1.63x |
| ✓ | to>2 | | H219T | fortes: | |
| ✓ | to-> | | E158D | respexit | 2.166x |
| ✓ | toS2sux1 | | C460 | Surge | |
| | climacus | | | | |
| ✓ | ci | | C26A | tuum | |
| ✓ | ci1 | | G73P | gentes | |
| ✓ | cilsc3 | | C74B | tuo | |
| ✓ | ci- | | C81E | nos | |
| ✓ | ciS | | C81E | Domine | |
| ✓ | ciS1 | | C139A | Deus | |
| ✓ | visut1su2 | | C53A | Adorabo | |
| ✓ | ciG | | C64Q | lapidem | |
| ✓ | ciG1 | | C42A | ille | |
| ✓ | ciM | | C154A | Alleluia | |
| ✓ | ciM- | | H24S | aeternum | 2.0x |
| ✓ | ci> | | C460 | orta | |
| ✓ | cl> | | C79L | domum | |
| ✓ | visuv1su2 | | C35Q | nos | |
| ✓ | visut3 | | C38T | meo | |
| ✓ | visu1suu1 | | C26D | laetitia. | |
| ✓ | visut4 | | C25U | me. | |
| ✓ | cl-1su2 | | C40A | magna | |
| ✓ | visu1sut2 | | C43L | Domine | |
| ✓ | visu1suv1 | | C53S | terrae. | |
| ✓ | visuu1su2 | | C56D | eius | |
| ✓ | visuu2su2 | | H103S | salus | |
| ✓ | visuu3 | | H316N | erit | 2.0x |
| ✓ | vi-suu2su2 | | H103S | o | |
| ✓ | visu2suw1 | | G113A | Alleluia | 0.85x |
| ✓ | visut2su2 | | G128A | Alleluia | 0.85x |
| ✓ | visut3suw1 | | C153S | dicent. | |
| ✓ | visu1sut1sux1 | | G126D | salvum | 0.85x |
| ✓ | visu1sut1su2 | | N39H | puer | |
| ✓ | visu1sut1suti1 | | N39H | generavit | |
| ✓ | vi-suisut1su2 | | N39H | enim | |
| ✓ | visut1sux1 | | N59N | filium | |
| ✓ | clSsu1suti1 | | N65G | tui | |
| ✓ | vi-su4 | | N68G | Amen. | |
| ✓ | vi-su1sut2su1 | | N73K | Christe | |
| ✓ | visu1sut1suy1 | | N221N | Alleluia. | |
| ✓ | visut3suy1 | | N293A | dicent. | |
| ✓ | visut2suy1 | | N363C | sacro | 1.25x |
| ✓ | visu5 | | N368L | fornacibus | 1.25x |
| ✓ | visuu5 Cf. - | | | vippt2suy1 minus prepunctis | |
| ✓ | visu1suu1su2 | | N3720 | erogatione | 1.25x |
| ✓ | vi-su1suu2 | | A174A | meus | |
| ✓ | vi-su1suu1su1 | | A174A | Alleluia. | |
| ✓ | vi-sut2 | | H74I | illuminare | |
| ✓ | clSsu2 | | C46A | eius | |
| ✓ | vi-su1suu2 | | H75I | sanctus | |
| ✓ | vi-su1sut1su2 | | H328F | tibi | 2.0x |
| ✓ | clSs2 | | E51R | suscipiant | 2.0x |
| ✓ | clSsu1su2 | | H390C | surrecturus | 1.5x |
| ✓ | vi-sut3 | | H269D | dicentes | |
| ✓ | vi-su1suti1 Cf. - | | | vi-su1suti1su2 minus subpunctis | |
| ✓ | vi-su2suti1 | | N296V | alleluia | |
| ✓ | vi-su1sux1 | | E373B | Sanctum | 2.133x |
| ✓ | vi-su2sux1 | | C49I | eum | |
| ✓ | vi-sut4 | | H16A | servient | 1.7x |
| ✓ | vi-suu2 | | H23E | ecce | 1.7x |
| ✓ | vi-suu3 | | H35G | veniet | 1.7x |
| ✓ | visu2sux1 | | H48B | mater | 1.7x |

| | | | |
|-------------------------|---------------------------|----------------|--------|
| vi-sut1su2 | H22S | elegi | 1.71x |
| vi-suisuu1 | H114C | gloriam | 1.71x |
| vi-suisuu1su2 | H114M | nobis | 1.71x |
| vi-suisut2 | H324P | aetatis | 2.0x |
| vi-su3 | H307F | natalem | 2.0x |
| vi-sut1suu1 | 325I | peregrinatione | 2.0x |
| vi-sut3sux1 Cf. 3 | bv-sut3sux1 minus virga | | |
| <hr/> | | | |
| scandicus | | | |
| sc | G11P | imperium | 0.85x |
| sc1 Cf. 3 | vipp4 minus first punctum | | |
| sc- | C123C | terram | |
| scS | C154A | Alleluia | |
| scG | H179I | Iudas | |
| scG1 | C52P | Posuisti | |
| scM1 | C67D | Domine | |
| sc> | C26A | Alleluia | |
| Cf. 3 | pe>2 | | |
| vi-pp2 | C26A | Domine | |
| vi-ppt3 | C27E | veniet. | |
| scM2 | C44E | Ecce | |
| vi>ppt3 | E2R | non | 2.166x |
| cl>ppt2 | H730 | annuntiantes | |
| vi-!vi!vi | E155B | Benedicite | 2.166x |
| vippt3 | G1400 | ae | 0.85x |
| vi-pp4 | C154A | rectos | |
| vi-!vi-!vi | H118G | erubescat | |
| vipp4 | A127E | eum | |
| vi>ppt2 | H75V | apertis | |
| scG-1 | H225M | Mulieres | 1.6x |
| <hr/> | | | |
| orrectus flexus | | | |
| pf | C27E | sacrificia | |
| pflsc2 | C58D | intendentes | |
| pflsc2 | C61I | Ipse | |
| pflst2 | C122I | fines | |
| pf- | C81E | antiquis. | |
| pfS | G116C | tribuit | 0.85x |
| sfM | E248V | alleluia, | 2.166x |
| pfM | E39E | manere | 2.166x |
| pf> | C95D | manducare | |
| Cf. 3 | po> | | |
| pfMsut1 | E34I | eum | 2.166x |
| <hr/> | | | |
| pes subbipunctis | | | |
| pesu2 | C81E | antiquis. | |
| vippt1su2lsc3 | C61T | solus: | |
| pe-su2 | H73S | adoraverunt | |
| pe-1su2 | C64Q | habitat | |
| pe-1sut2 | H104T | confitemur | |
| pe-1sut1suw1 | H219I | videret | 1.63x |
| peSsu2 | A17T | eius | |
| peSsu2 | C27E | sanctos | |
| peSsut1suy1 | H316N | erit | 2.0x |
| vippt1su2 | C56B | benedicetur. | |
| toS2sut1 | C139A | Alleluia | |
| vi-!ci | E272M | cognovisti | 2.166x |
| pesuisuw1 | G8E | plebem | |
| pe-suisut1 | N296V | alleluia | |
| pe-su2suy1 | N296V | alleluia | |
| pe-1sut3 | H179A | malum | |
| Cf. 3 | to> | | |
| pesuisuu1 | C27E | Deus | |
| pesu3 | C27Q | regis | |
| vippt1su1sut1 | C40V | omnes | |
| vippu1su2 | C74B | Altissime. | |
| pesuisut3 | C60S | venti. | |
| pesu2suv1 | C60C | Sana | |
| pesu2sut1 | E213C | Alleluia. | 2.0x |
| pesuisut2 | E213C | Alleluia. | 2.0x |
| vippu1su2lsc3 | C32B | caeli | |
| pe-1su1suu1 | C61I | pascuae | |
| peSsu1sux1 | G89D | filii | 0.85x |
| pe-su3sut1 | N270A | saecula. | |
| pe-1sut1sux1 | H72V | orta | |
| peSsut3 | C460 | Jerusalem | |
| pesut2 | H77S | magi | |

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|-------|---------------------------|-----------|-------------------|--------|
| ✓ | pe-1suw2 | E255S | Domini | 2.133x |
| ✓ | peSsut1su2 | E13P | Domine | 2.133x |
| ✓ | pesuisux1 | H25E | angelum | 1.7x |
| ✓ | pe-1su1suw1 | H29E | deprecabuntur | 1.7x |
| ✓ | pesuisut1 Cf. 3 | pesuisut3 | minus 2 tractulis | |
| ✓ | pe-1su1sut1 | H306N | de | 2.0x |
| ✓ | pe-1su1sut2 | H305G | Mariae | 2.0x |
| ✓ | pe-1su1suu2 | H305G | vidente | 2.0x |
| ✓ | pe-1suu1su2 | H180U | exhortabamini | 1.75x |
| ✓ | pe-su4 | C139A | Alleluia | |
| ✓ | pesuvisu1sut1 | C139A | Alleluia | |
| <hr/> | | | | |
| | scandicus flexus | | | |
| ✓ | sf | C64Q | habitat | |
| ✓ | sflsc3 | C27E | Deus | |
| ✓ | sf- | C39B | est | |
| ✓ | sfS | C97D | Deus | |
| ✓ | toppu1 | C103C | Cantemus | |
| Cf. 3 | sfM | | | |
| Cf. 3 | sc> | | | |
| ✓ | to>pp2 | E324R | testamentum | 2.0x |
| <hr/> | | | | |
| | torculus resupinus | | | |
| ✓ | tr | C25U | edoce | |
| ✓ | trlst2 | E69P | eius | 2.0x |
| ✓ | tr-1 | C38T | meo | |
| ✓ | trS | C58A | Domine | |
| ✓ | trG | E336I | fecisti | 2.166x |
| ✓ | trG1 | G25P | ei | |
| ✓ | trG2 | E147L | Laetare | 2.166x |
| ✓ | trM | E336I | resistere | 2.166x |
| ✓ | tr> | C82V | nonconfundentur | |
| ✓ | tr~ | C60S | Altissimus | |
| ✓ | tr-- | C27Q | et | |
| ✓ | tr~-1 | C107A | Alleluia. | |
| ✓ | trS- | C89T | pedes, | |
| ✓ | trS1 | E26L | eeiieue | 2.166x |
| ✓ | tr-3 | H323D | honore | 2.0x |
| ✓ | trsut3 | C95D | eius. | |
| <hr/> | | | | |
| | stropha | | | |
| , | st | C80Q | commovebitur | |
| , | st- | C52P | Desiderium | |
| , | stS | E263V | est. | 2.166x |
| , | st> | C49I | servum | |
| <hr/> | | | | |
| | distropha | | | |
| .. | ds | C460 | super | |
| .. | dslsx6 | C45S | forma | |
| .. | ds- | C81E | Domine | |
| .. | ds> | C38A | Alleluia | |
| <hr/> | | | | |
| | tristropha | | | |
| ... | ts | C80Q | Dominus | |
| ... | tslsx6 | C44D | mansuetudinem | |
| ... | ts- | C150L | ibimus | |
| ... | tsM | C62M | anima | |
| ... | ts> | C62M | concultantes | |
| ... | tsM- | A26F | ego | |
| ... | tsM> | H45H | aeterna | 2.0x |
| <hr/> | | | | |
| | trigonus | | | |
| .. | tg | C80Q | aeternum | |
| .. | tg1 | C81E | antiquis. | |
| .. | tgS | C139B | omnibus | |
| .. | tgS1 | N171D | mei | |
| .. | tgS3 | C61I | laetitia. | |
| .. | tgM | C118C | Dominus | |
| .. | tgS- | C118C | Dominus | |
| .. | tgS4 | C86D | mei | |
| <hr/> | | | | |
| | bivirga | | | |
| // | bv | C26D | Propterea | |
| // | bv- | C82B | populus | |
| // | bv> | H33I | montes | |
| <hr/> | | | | |
| | trivirga | | | |
| /// | tv | C56D | pretioso | |
| /// | tv- | C61I | eius. | |
| <hr/> | | | | |
| | pressus | | | |
| ~ | pr | C26A | Alleluia | |
| ~ | pi | C82R | Domine, | |

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|---------------------|---------------------------|---------------|--------|
| piM1 Cf. | piM1sut1 minus subpunctis | | |
| prlsc2 | E339S | Si | 2.166x |
| pr-lsc3 | C122I | Dei | |
| prlst2 | C145L | tuo | |
| pilsc2 | C122I | Dei | |
| pilst2 | C26A | Alleluia | |
| pr- | C59D | Si | |
| prM | E173E | insurgentibus | 2.166x |
| pr> | H72H | in | |
| pi> | H103M | Magnus | |
| vs> | | | |
| or> | | | |
| virga strata | | | |
| vs | C148A | generatio | |
| vslsc3 | C39B | nomine | |
| vslst2 | E195D | suis, | 2.166x |
| vs- | C82B | Domini | |
| vs> | C64Q | pennis | |
| ta> | | | |
| vs-> | A22V | Rama | |
| orisicus | | | |
| or | H112S | candidior | |
| or> | C148V | salutari | |
| salicus | | | |
| sa | C27E | super | |
| sa1 | C148A | Alleluia. | |
| salsfr1 | E3D | Deus | 2.166x |
| sa- | C25U | tuas | |
| sa-1 | G30E | tribulationis | |
| saG | C107A | Alleluia. | |
| saM | H16V | venient | 1.7x |
| saM1 | H23E | homo | 1.71x |
| saM2 | C27Q | regis | |
| saM4 | E10P | omnis | 2.166x |
| saM5 Cf. | saM5ppt1 minus tractulus | | |
| saM6 | H153V | dicam | 2.0x |
| sa> | C27E | sanctos | |
| sa->1 | H77A | magi | |
| pe>2 | | | |
| sa!cls1 | C80Q | sicut | |
| sa!cls-1 | C27Q | tuam | |
| sa!cls1lsc2 | C46B | Deus | |
| sa-lsfr1 | C134B | nomen | |
| sa!cl> | G45D | respexit | 0.85x |
| sa!cl> | G22D | euge | 0.85x |
| sa!cl | G1410 | fortitudo | 0.85x |
| saM-1 | G139A | Domine | 0.85x |
| sa!cl- | G132V | Alleluia. | 0.85x |
| saM3 | N53A | fratres | |
| saM-4 | N296V | amoris | |
| sa>2 | H73S | viderunt | |
| sa1!cl-> | H32N | eius | 1.7x |
| sapp1 | H320R | venite | 2.0x |
| saM5ppt1 | H392I | de | 1.5x |
| pes quassus | | | |
| pq | C27E | sacrificia. | |
| pqlsfr1 | C150L | nostri | |
| pq- | C148V | nostro | |
| pq> | C84T | pupillo | |
| pqS | C52T | maiestate | |
| pqS> | H424M | potentiam | |
| pqS- | H411C | os | 2.0x |
| pq!cl> | G57F | firmamentum | 0.85x |
| pq!cl | E23T | Domini | 2.166x |
| quilisma | | | |
| ql | C80Q | commovebitur | |
| qi | C103C | Hic | |
| ql- | C148A | generatio | |
| qi- | H28Q | veniet. | |
| ql> | C40V | gentium | |
| qi> | C28A | et | |
| ql-> | H430 | Salvator | 2.0x |
| pes stratus | | | |
| pt+ | C140D | ee | 0.85x |

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|------------------------|--|--------------------|-----------|
| subpunctis | | | |
| su2 Cf. | | ci | |
| su3 Cf. | | ci1 | |
| su1sut1 Cf. | | ciS | |
| sut2 Cf. | | ciS1 | |
| suu1su2 Cf. | | visuu1su2 | |
| su1suw1 Cf. | | ciM | |
| su1sux1 Cf. | | ci> | |
| su1sut2 Cf. | | visu1sut2 | |
| su1suu1 Cf. | | visu1suu1 | |
| su2suw1 Cf. | | visu2suw1 | |
| su2sux1 Cf. | | vi-su2sux1 | |
| su1su2 Cf. | | visut1su2 | |
| su1suw1 Cf. | | pe-1sut1suw1 | |
| su3 Cf. | | visut3 | |
| suv1su2 Cf. | | visuv1su2 | |
| su4 Cf. | | visut4 | |
| su5 Cf. | | peSpp2sut5 | |
| su1suv1 Cf. | | visu1suv1 | |
| suu2su2 Cf. | | vi-suu2su2 | |
| suu1suisut2 Cf. | | qi-ppt1suu1su1sut2 | |
| suu1sutsu2 Cf. | | vi-su1sutsu1 | |
| su2su2 Cf. | | visut2su2 | |
| su1sut3 Cf. | | pesu1sut3 | |
| su2suv1 Cf. | | pesu2suv1 | |
| su3suw1 Cf. | | visut3suw1 | |
| su3sux1 Cf. | | bv-sut3sux1 | |
| su1sut1su1 Cf. | | visu1sut1sux1 | |
| su1sut1su2 Cf. | | visu1sut1su2 | |
| su1sut1suisut1 Cf. | | visu1sut1suisut1 | |
| su1sut1su1 Cf. | | visu1sut1sux1 | |
| su4 Cf. | | vi-su4 | |
| su1sut2su1 Cf. | | vi-su1sut2su1 | |
| su1sut1suy1 Cf. | | visu1sut1suy1 | |
| su3suy1 Cf. | | visut3suy1 | |
| su2suy1 Cf. | | visut2suy1 | |
| su5 Cf. | | visu5 | |
| su1suu1su2 Cf. | | visu1suu1su2 | |
| su1suu2 Cf. | | vi-su1suu2 | |
| su1suu1su1 Cf. | | vi-su1suu1su1 | |
| su3sut1 Cf. | | pe-su3sut1 | |
| suu2 Cf. | | ql-ppt1suu2 | |
| su2sut1 Cf. | | vi-su2sut1 | |
| su2suy1 Cf. | | pe-su2suy1 | |
| suw2 Cf. | | pe-1suw2 | |
| su2suum1 Cf. | | ql-ppt1sut2suum1 | |
| suu3 Cf. | | vi-su3 | |
| suu5 Cf. | | vipp2suum5 | |
| su1 Cf. | | ci | |
| su1 Cf. | | ci1 | |
| su1suv1su2 Cf. | | ql-ppt2su1suv1su2 | |
| su1sutsu1 Cf. | | vi-sut1sutsu1 | |
| su1sutsu1 Cf. | | pesuv1su1sutsu1 | |
| prepunctis | | | |
| pp2 Cf. | | vi-pp2 | |
| ppu2 Cf. | | scS | |
| ppt2 Cf. | | sfS | |
| ppu3 | | C47I | Sede |
| ppu4 | | C58A | Domine |
| ppu5 | | C50G | confregit |
| pp4 | | C780 | escam |
| pp3 Cf. | | pp4 | |
| ppt3 Cf. | | vi>ppt3 | |
| ppt4 | | N69G | amin. |
| ppt5 | | A56C | videant |
| pp1 Cf. | | vi-pp2 | |
| combined glyphs | | | |
| c1!pi | | C82R | Domine |
| c1!pilsc1lst3 | | C89T | manum |
| c1!pilsc2 | | C149A | cantabo |
| c1!pisu1lst2 | | H30T | pauperes |
| | | | 2.0x |

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|-------------------------------|-------------------------------------|--------|--------|
| cl!pisu1 Cf. <i>cl!</i> | cl!pisu1st2 minus letter | | |
| cl!pr | G51S ipsa | 0.85x | |
| cl!pi | E35E illis | 2.166x | |
| ql!cl | C148A Domine | | |
| ql!cl!cl> Cf. <i>cl!</i> | ql!cl!cl>ppt1 minus tractulus | | |
| ql!cl!pi Cf. <i>cl!</i> | ql!cl!pippt1 minus tractulus | | |
| ql!pf- | G42D mane | 0.85x | |
| ql!pf | G35D Domine | | |
| ql!cl- | C26A Alleluia | | |
| ql!clM Cf. <i>cl!</i> | ql!clMppt1 minus tractulus | | |
| ql!cl-> Cf. <i>cl!</i> | ql!cl->ppt1 minus tractulus | | |
| ql!cl> | H26L salva | 0.5x | |
| ql!cl>1 | H411D nomen | 2.0x | |
| ql!po | C148V nostro | | |
| ql!po-1 | C148A Alleluia. | | |
| ql!po> | H33I terram | | |
| ql!vs | C148A refugium | | |
| ql!vssu2 Cf. <i>cl!</i> | ql!vsspt1su2 minus tractulus | | |
| ql!vssut2 Cf. <i>cl!</i> | ql!vsspt1sut2 minus tractulus | | |
| qi!vs Cf. <i>cl!</i> | qi!vssu2 minus subbipunctis | | |
| qi!vssu2 Cf. <i>cl!</i> | qi!vsspt1su2 minus tractulus | | |
| qi!vssu1sut2 Cf. <i>cl!</i> | qi!vsspt1su1sut2 minus tractulus | | |
| ql-su1suu1 Cf. <i>cl!</i> | ql-ppt1su1suu1 minus tractulus | | |
| ql-su1suu1 Cf. <i>cl!</i> | ql-ppt2su1suu1su2 minus tractulus | | |
| qisu2 | E166C sermones | 2.0x | |
| qisut2 Cf. <i>cl!</i> | qippt2sut2 minus tractulus | | |
| ql-su3 Cf. <i>cl!</i> | ql-ppt1su3 minus tractulus | | |
| qlsut3 Cf. <i>cl!</i> | qlppt1sut3 minus tractulus | | |
| qlsu2 Cf. <i>cl!</i> | qlppt1su2 minus tractulus | | |
| ql-su2 Cf. <i>cl!</i> | ql-ppt1su2 minus tractulus | | |
| ql-sut2 | H73S cedebat | | |
| ql-su1suu1 Cf. <i>cl!</i> | ql-ppt1su1suu1 minus tractulus | | |
| ql-su1sut2 Cf. <i>cl!</i> | ql-ppt1su1sut2 minus tractulus | | |
| ql-sut1suu1 | H72H complacui | | |
| ql-suu2 Cf. <i>cl!</i> | ql-ppt1suu2 minus tractulus | | |
| ql-sut2su1 Cf. <i>cl!</i> | ql-ppt1sut2su1 minus tractulus | | |
| ql-sut2suu1 Cf. <i>cl!</i> | ql-ppt1sut2suu1 minus tractulus | | |
| qi-su2 | H73S cedebat | | |
| qi-su1sut2 Cf. <i>cl!</i> | qi-ppt1su1sut2 minus tractulus | | |
| qi-su1suu1sut2 Cf. <i>cl!</i> | qi-ppt1suu1suu1sut2 minus tractulus | | |
| qi-su1suu1 | H26G certamine | 1.7x | |
| ql-su1suu2 | H34F facinora | 1.71x | |
| qi!cl | C82B spiritu | | |
| qi!cl- | C148A factus | | |
| qi!cl> | H77S Magi | | |
| qi!cl-> | H2590 sanctior | 2.0x | |
| qi!po | H87E Deus | | |
| qi!po> | H173C adversum | 1.9x | |
| pf!clM-ppt1 | E3270 narante | 2.166x | |
| cl!po>ppt1 | E3270 narante | 2.166x | |
| qlppt1 | C38T Sede | | |
| qippt1 | C37A Domine | | |
| qi!clppt1 | C88T hostias, | | |
| ql-ppt1 | C26D laetitiae. | | |
| ql>ppt1 | C38T virtutis | | |
| qi>ppt1 | C60S terram. | | |
| qisut1sux1 | H269S linguarum | | |
| qlsut2 | H269D alleluia | | |
| qi-sut2 | H269D alleluia | | |
| qi-ppt1suu1sut2 | H269R magnalia | | |
| qi-ppt1suu1suu1sut2 | H392L visitasti | 1.5x | |
| ql!cl>ppt1 | H730 aurum | | |
| ql!clppt1 | C39B Domini: | | |
| ql!cl!cl>ppt1 | E133I corda | 2.166x | |
| ql!cl!pippt1 | E31T maris | 2.166x | |
| ql!cl-ppt1 | C40A terram. | | |
| ql!clMppt1 | E324R tuum | 2.166x | |
| ql!cl->ppt1 | G132A Alleluia. | 0.85x | |
| ql!clSppt1 | H239R qui | 2.0x | |
| ql!cls Cf. <i>cl!</i> | ql!clsMppt1 minus tractulus | | |
| ql!cls-2ppt1sut1 | E3D et. | 2.0x | |
| ql!cls-2sut1 Cf. <i>cl!</i> | ql!cls-2ppt1sut1 minus tractulus | | |
| ql!cls-2ppt1 Cf. <i>cl!</i> | ql!cls-2ppt1sut1 minus tractulus | | |
| ql!cls-2 Cf. <i>cl!</i> | ql!cls-2ppt1sut1 minus 2 tractulis | | |
| ql!poppt1 | C59D Domine. | | |
| ql!po-1ppt1 | C58A homo. | | |
| ql!po-ppt1 | H179L pauperem | | |
| ql!po~ Cf. <i>cl!</i> | ql!po~ minus tractulus | | |
| ql-ppt1su2 | H72V Jerusalem | | |
| ql-ppt1su1sut2 | H730 Reges | | |
| ql-ppt1suu1 | H75I patris | | 2.0x |
| ql-ppt1su1sut2 | H72H Hic | | |
| ql-ppt1sut2su1 | H414E faciat | | 2.0x |
| ql-ppt1sut2suu1 | H16M altissimi | | 1.7x |
| ql!vspp1su2 | H730 Domino | | |
| ql!vspp1 Cf. <i>cl!</i> | ql!vspp1su2 minus subbipunctis | | |
| ql!vspp1sut2 | H73S gaudio | | |
| qi!vspp1su2 | H74I Domini | | |
| qi!vspp1su1sut2 | H392L viderent | | 1.5x |
| qi-sut3 | H322B in | | 2.0x |
| ql-ppt1su1suu1 | H305H David | | 2.0x |
| ql-ppt1su3 | H323D subire | | 2.0x |
| qlppt1sut3 | H305G Redemptorem | | 2.0x |
| qlppt1su2 | E166C secundum | | 2.0x |
| ql-ppt2su1suu1su2 | H306N illustrat | | 2.0x |
| ql-su1sut1 | H307F iustitiae | | 2.0x |
| qippt2sut2 | H297B generationes | | 2.0x |
| ql!vssu3 | H443V ei | | 2.0x |
| to!ciG | E51R eum | | 2.0x |
| to!ciG | C28T gloriae. | | |
| to!cl | C84T pupillo | | |
| to!cl!cl!cl | C64Q sepavit, | | |
| to!cl> | H407P huius | | 2.0x |
| to!cl!po | E31T veritas | | 2.166x |
| to!cl!po-1 | N100T veritas | | |
| to!cl!pi | C45S mea | | |
| to!cl- | N86D propterea | | |
| to!cl!cl- | C54A Adducentur | | |
| to!cl-1 | C45S filii | | |
| to!cl-> | H49C aeternum | | 2.0x |
| to!cls | C43A terram. | | |
| to!clMss8 | H406D mihi | | 2.0x |
| to!clM Cf. <i>cl!</i> | to!clMss8 minus letter | | |
| to!cl!cl | C43A Domini, | | |
| to!po | C64Q sagitta | | |
| to!posu2 | C49I eo, | | |
| to!pr | G11V Deo | | 0.85x |
| to!pi | C60C tui. | | |
| toSsu2 | H72H mihi | | |
| toS!cl-lsi8 | H398E Domine | | 2.0x |
| toS!cl- Cf. <i>cl!</i> | toS!cl-lsi8 minus letter | | |
| toS!cllsi8 | H398E sapientiam | | 2.0x |
| toS!cl Cf. <i>cl!</i> | toS!cllsi8 minus letter | | |
| pf!cl- | G51I meus | | |
| pf!clM- Cf. <i>cl!</i> | pf!clM-ppt1 minus tractulus | | |
| pf!pr | G9A Alleluia | | |
| cl!po> Cf. <i>cl!</i> | cl!po>ppt1 minus tractulus | | |
| cl!cl1 | N67G mundi | | |
| cl!clssut2 | E256C psallite | | 2.166x |
| cl!cls Cf. <i>cl!</i> | cl!clssut2 minus 2 tractulis | | |
| cl!po | C26A nobis. | | |
| cl!po-1 | H119C in | | |
| tr-1su2 | H730 dona | | |
| trSsut2 | H305H devotissime | | 2.0x |
| ci-pp2 | H73S magno | | |
| toS2su2 | H73S eam | | |
| toS2sut2 | C150L dicta | | |
| to-1su2 | H322C ostendere | | 2.0x |
| to-1su1 | H323B Gallus | | 2.0x |
| to-1suu1 | H173I me | | 1.8x |
| to-1suu1su2 | H324V cognovi | | 2.0x |
| po-1pp2su1suu1 | H323D desiderium | | 2.0x |
| po-1su1suu1 Cf. <i>cl!</i> | po-1pp2su1suu1 minus bipunctis | | |
| pisu1 | H307N annuntiavit | | 2.0x |
| pisut1 | C153B Alleluia | | |
| piM1sut1 | H338D ad | | 2.0x |
| pq-su2 | C132D praetiosos | | |
| pe!vi | C57B qui | | |

| | | | | |
|--|-------------|-------------|------------------|-------|
| | tgsuu1 | C49I | eum. | |
| | tgSsuu1 | C57B | nimir. | |
| | bv-sut2 | H179U | fuisset. | 1.75x |
| | bv-sut3sux1 | H406A | favilla | 2.0x |
| | sa-su1sut1 | H296S | electa | 2.0x |
| | sa-su2sut1 | C49I | eum | |
| | peSppt2sut5 | H401A | multiplicentur | 2.0x |
| | peSppt2 Cf. | peSppt2sut5 | minus subpunctis | |
| | peSsut5 Cf. | peSppt2sut5 | minus prepunctis | |
| | vippt2suum | H405S | me | 2.0x |

significative letters

| | | | | |
|--|----------|-------|-------------|-----------------------|
| | lsam | C87E | abstraxisti | altius |
| | lsal | E20E | Sion, | altius mediocriter |
| | lsb | C39B | Domino | bene |
| | lsc | C27E | eius | celeriter |
| | lscw | C148V | nostro. | celeriter (wide form) |
| | lscm | C134B | nomen | coniunguntur |
| | lscm | C58A | oblivio | celeriter mediocriter |
| | lsd | E11C | Virgo | deprimatur |
| | lse | C84T | adiutor | equaliter |
| | lsew | H266D | si | equaliter (wide form) |
| | lseq | C64Q | viis | equaliter |
| | lsfid | E16B | Domino | fideliter |
| | lsfr | C58A | non | frendor |
| | lsg | C27Q | ovem | guttura |
| | lsi | C87E | Domine | iusum |
| | lsim | E336I | universa | iusum mediocriter |
| | lsiv | E92I | misericors | iusum valde |
| | lsk | C62M | confidit | klenge |
| | lsl | C38T | Tecum | levare |
| | lslb | C58A | non | levare bene |
| | lslc | E151A | ab | levare celeriter |
| | lslen | C59D | servitui. | leniter |
| | lslm | C38T | Tecum | levare mediocriter |
| | lslp | E161S | dicit | levare parvum |
| | lslt | E148L | Laudate | levare tenete |
| | lsm | C38T | principium | mediocriter |
| | lsmoll | E33V | fines | molliter |
| | lsp | C64Q | altissimi | parvum |
| | lspar | E104S | miserere | paratim |
| | lspfec | E2D | fructum | perfecte |
| | lspm | C40V | suam. | parvum mediocriter |
| | lspulcre | E64L | hac | pulcre |
| | lss | C27E | sanctos | sursum |
| | lssb | C40V | iustitiam | sursum bene |
| | lssc | C84T | Tibi | sursum celeriter |
| | lssimil | E193D | ne | similiter |
| | lssimul | E42A | sumus. | simul |
| | lssm | C59D | Si | sursum mediocriter |
| | lsst | C87E | Domine | sursum tenere |
| | lssta | C27E | Congregate | statim |
| | lst | C39B | Domino | tenete |
| | lstw | C58A | non | tenete (wide form) |
| | lstb | C39B | Domino | tenete bene |
| | lstm | E3D | tu | tenete mediocriter |
| | lsv | E1310 | semper | valde |
| | lsvol | C58A | aeternum | volubiliter |
| | lsx | C87E | me: | expectare |

manuscript sources of the grelaon font

The list of glyphs uses following abbreviations for manuscript references; the page number is always for the start of some antiphon, responsory, mass propers, even when the actual neume is on a later page. At the end of lines, GT stands for *Graduale Triplex*, Solesmes, 1979, OT for *Offertoriale Triplex*, Solesmes, 1985, GN for *Graduale Novum de Dominicis et Festis*, Conbrio Verlag Regensburg, 2011, followed by page number which also contains the corresponding propers, antiphons or responsories.

All the grelaon font glyphs taken from the LAON_BM_ms239 codex with the permission from the Bibliothèque municipale de la ville de Laon <http://manuscrit.ville-laon.fr>, the picture fragments from there are only present in the font source file to help drawing the glyphs.

Graduale Laudunensis, codex 239

| | |
|------------------------------------------------------------------------------|-------------------------------------------|
| L1 = http://manuscrit.ville-laon.fr/_app/_visualisation.php?cote=Ms239&vue=9 | L78H Hoc corpus GT170 |
| L8U Universi qui te GT16 | L80S Sperent in te omnes GT286 |
| L8A Ad te Domine levavi OT5 | L81E Exaltabo te Domine GT112 |
| L8D Dominus dabit GT17 | L81R Eripe me de inimicis GT129 |
| L9E Ex Sion species GT18 | L82O Omnia quae fecisti GT342 |
| L10I Ierusalem surge GT20 | L82T Tollite hostias GT272 |
| L11Q Qui sedes, Domine GT22 | L84B Benedictus es, Domine OT48 |
| L13A Ave Maria GT36 | L90D Deus Deus meus GT144 |
| L14P Prope es tu Domine GT24 | L92E Exsurge Domine GT150 |
| L140 Ostende nobis GT31 | L93E Erubescant et revereantur GT152 |
| L17H Hodie scietis GT38 | L93G Ego autem dum mihi GT152 |
| L18L Laetentur caeli GT44 | L94C Custodi me Domine GT154 |
| L19B Benedictus qui venit GT45 | L95D Domine, exaudi orationem GT172 |
| L20P Puer natus est GT47 | L99P Popule meus quid GT176 |
| L24D Dextera Domini GT194 | L101V Vinea facta est GT188 |
| L24T Timebunt gentes GT265 | L103R Resurrexi GT196 |
| L25L Laetabitur iustus GT473 | L103H Haec dies GT196 |
| L25M Mirabantus omnes GN232 | L103P Alleluia Pascha nostrum GT197 |
| L28G Gaudeamus omnes GT545 | L103T Terra tremuit GT199 |
| L31D De profundis GT673 | L104I Introduxit vos Dominus GT200 |
| L33S Sciant gentes GT88 | L105A Angelus Dominus GT217 |
| L33C Commovisti Domine GT89 | L105N Angelus Dominus GT201 |
| L33P Perfice gressus OT90 | L106S Surrexit Dominus GT207 |
| L34E Esto mihi in Deum GT275 | L107H Haec dies GT206 |
| L35T Tu es Deus GT244 | L109P Populus acquisitionis GT210 |
| L37M Misericordia omnium GT62 | L112D Deus Deus meus GT224 |
| L37S Misericordia mei Deus GT63 | L112O Omnes qui in Christo GT61 |
| L38I Iacta cogitatum GT285 | L113E Ego sum pastor GT224 |
| L40Q Qui habitat GT73 | L114C Cantate Domino GT225 |
| L43L Levabo oculos meos GT78 | L114V Vocem iucunditatis GT229 |
| L43S Scapulis suis GT77 | L117R Repleti sumus GT441 |
| L43I Sicut oculi servorum GT77 | L118E Ego sum vitis vera GT228 |
| L44D Domine refugium GT79 | L122N Non vos relinquam GT232 |
| L44I Dirigatur oratio GT340 | L122V Viri Galilaei OT172 |
| L45R Reminiscere miserationum GT81 | L123A Ascendit Deus GT237 |
| L53C Confitemini Domino GT158 | L123E Exaudi Domine vocem GT241 |
| L54A Adiutor meus GT86 | L125U Ultimo festivitatis GT251 |
| L54B Benedic Domini OT88 | L125S Spiritus Domini GT252 |
| L56D Deus in adiutorium GT315 | L126F Factus est repente GT256 |
| L56S Salvum fac populum GT354 | L128S Spiritus ubi vult spirat GT218 |
| L56I Iustus Dominus GT93 | L132E Ecce quam bonum GT351 |
| L56P Propitiatus esto Domine GT288 | L136A Amen dico vobis quod vos GT436 |
| L58A Ad Dominum dum tribularer GT282 | L138S Semel iuravi GT492 |
| L60E Exsurge Domine GT96 | L144C Clamaverunt iusti GT454 |
| L60A Ad te levavi GT97 | L149E Ego dixi Domine GT279 |
| L61I Iustitiae Domini GT309 | L149C Cantabo Domino qui bona GT283 |
| L64O Oculi omnium GT343 | L152S Sicut in holocausto GT299 |
| L64D Domine fac mecum OT37 | L152I Inclina aurem tuam GT300 |
| L67Q Qui biberit aquam GT99 | L164D De profundis GT368 |
| L67S Si ambulem GT125 | L168I Iubilate Deo GT258 |
| L68N Nemo te condemnavit GT124 | L168S Specie tua GT416 |
| L68Q Qui confidunt GT109 | L168L Laudate Deum GT262 |
| L71D Dum sanctificatus fueris GT249 | L169A Adorabo ad templum GT270 |
| L72B Benedicite gentes GT231 | L173D Deus iudex iustus GT286 |
| L75V Videns Dominus GT124 | L174D Domine in virtute tua GT292 |
| L76E Eripe me Domine GT121 | L174I In te Domine speravi GT296 |
| L77S Saepe expugnauerunt GT122 | L174O Omnes gentes plaudite manibus GT298 |
| L77C Confitebor tibi Domine GT123 | L174T Te dece hymnus GT305 |

| | | | | | |
|-------------------|--------------|------------------|---------------------------|-------|-------------------------------------|
| uncinus | | | | | |
| un | L78H | testamenti | cllsn8 | L95D | velociter |
| un1 | L78H | calix | cllsn9 | L67S | tua, |
| un2 Cf. <i>¶</i> | un21sm1 | minus letter | clssst8 | L640 | imples |
| un2lsm1 | L820 | fecisti | cllst9 | L95D | tempus |
| unlsm1 | L75V | qui | cllsst6 | L43L | mirabilia |
| unlst1 | L103R | alleluia | cllsm2 | L45R | nobis |
| unlst2 | L820 | fac | cllsnt2 | L92E | me |
| unlst8 | L24D | opera | cl>lsa5 | L71D | effundam |
| un1lst8 | L1120 | Christo | | | |
| unlsm2lss31st8 | L43S | scuto | | | |
| punctum | | | | | |
| pu | L820 | iudicio | oriscus-clivis | | |
| pu1 | L56D | revereantur | oc | L78H | sanguine |
| pulsnt3 | L75V | flentes | ocG | L56D | Deus |
| virga | | | ocG1 | L11Q | veniet |
| vi | L820 | Domine | ocGlsa5 | L103T | resureret |
| viS Cf. <i>¶</i> | vipp2su2 | minus punctis | oclst8 | L95D | Domine |
| vi> | L78H | in | | | |
| vi>1 Cf. <i>¶</i> | vi>1lsa2lsc8 | minus letters | torculus | | |
| vi>2 | L820 | nobiscum | to | L78H | pro |
| vilst1 | L78H | meam | toS | L56S | populum |
| vilst2 | L95D | meus | toS1 | L68N | Nemo |
| vilst9 | L105A | quaeritis, | toG | L78H | tradetur |
| vilss1 | L103P | Alleluia. | to> | L67S | mortis |
| vilss2 | L95D | avertas | to | L37M | et |
| vilsst1 | L103P | Alleluia. | tolsf4 | L95D | tempus |
| vilst2lsa8 | L95D | eius. | tolsn8 | L44I | vespertinum. |
| vi>lsa6 | L78H | testamenti | tolst9 | L103P | Alleluia. |
| vi>lsc6 | L56D | adiuvandum | tolsth8 | L56I | Dominus, |
| vi>1lsa2lsc8 | L126F | loquentes | tolnsnt2lsta9 | L92E | me |
| tractulus | | | toGlsa1lsta8 | L109P | alleluia. |
| ta | L24T | tuam. | toGlsa5 | L68N | condemnabo |
| ta> | L78H | dicit | toSlsa5 | L77S | enim |
| ta>1 | L820 | mandatis | to>lsa5 | L118E | in |
| ta>2 | L90D | sancto | to>2lsa3 | L67Q | salientis |
| ta>lsnl2 | L45R | dominentur | to>2lsc1lsa3 | L104I | terram |
| ta>2lsc2 | L90D | Libera | | | |
| pes | | | climacus | | |
| pe | L78H | commemorationem | ci | L95D | eius. |
| peG | L78H | vobis | unsun2 | L820 | da |
| pe> | L95D | exaudi | unsun3 | L103P | immolatus |
| pe>1 | L78H | sanguine | unsux1 | L169A | sanctum |
| peG1 | L67S | tua, | unsun1su2 | L109P | tenebris |
| pelsa2 | L820 | peccavimus | pusu1sun1 | L78H | tradetur |
| pelsc2 | L67S | tuus, | pusu1sun2 | L95D | Sion |
| pels12 | L43L | iustitiam | pusu2sun1 | L95D | eius. |
| pelsm2 | L81E | meam, | visu1sun1 | L95D | faciem |
| pelsn2 | L149C | qui | visu1sun2 | L40Q | latere |
| pelsn3 | L125S | replevit | visu1sun2lsa5 | L174D | et |
| pelsst1 | L103P | immolatum | visu1sun2lsa6 | L174D | et |
| pelsst1lsm4 | L44I | Elevatio | visu1sun1su1 Cf. <i>¶</i> | | visu1sun1su1lsta6 minus letter |
| pelst2 | L103H | saeculum | visu1sun1su1lsta6 | L105N | descendit |
| peGlsf1 | L67S | non | visu1sun1su2 Cf. <i>¶</i> | | visu1sun1su2lss1lsta6 minus letters |
| peGlsa6 | L109P | vocavit | visu1sun1su2lss1lsta6 | L168I | Alleluia. |
| pe>1lsa6 | L114V | alleluia | visu2 | L95D | misereberis |
| orrectus | | | visunisu1sun1 | L60E | conspectu |
| po | L78H | facite | visunisu1sun1lsta6 | L35T | virtutem |
| poG | L64D | mecum | cilsf1 | L95D | Sion |
| poM Cf. <i>¶</i> | poMsun1 | minus uncinus | cilsn8 | L58A | iniquis, |
| po> Cf. <i>¶</i> | po>pp2 | minus prepunctis | pusu1sun1lsf1 | L95D | mei |
| po>1 | L81E | descendentibus | pusu1sun2lsa5 | L67S | timebo |
| polsf2lsta3 | L95D | meus | pusu1sun1lsta7 | L60E | homo |
| polst2 | L103H | saeculum | pusu3 | L640 | escam |
| clivis | | | pusu4 | L92E | persequntur. |
| cl Cf. <i>¶</i> | cllsn9 | minus letter | unsun2su1 | L640 | escam |
| clG | L78H | hoc | unsun1su1 Cf. <i>¶</i> | | unsun1su1lsta2lsc6 minus letters |
| clG1 | L105N | accedens | | | |
| clGlsa5 | L820 | obedivimus | | | |
| clGlsn12 | L44I | Elevatio | | | |
| clM | L78H | quotiescumque | | | |
| cl> | L75V | monumentum | | | |
| cl>1 | L34E | locum | | | |
| cllshn8 | L640 | imples | | | |

| | | | |
|-------|---------------------------|-------|------------------------------|
| | unsun1su1lst2lsc6 | L11Q | deducis |
| | unsun2lsa5 | L19B | mirabile |
| | unsun3lsa3 | L24T | gentes |
| | unsun3lsa6 | L24T | tuam. |
| | unsun2su2 | L169A | confitebor |
| | un1sun2su2 | L136A | aeternam |
| | un1sun1su1sun1lsailsc4 | L60E | retrorsum |
| | un1sun1su1sun1lsa3lsc6 | L60E | retrorsum |
| | un1sun1su2 Cf. ↗ | | un1sun1su2lsa5 minus letter |
| | un1sun1su2lsa5 | L107H | Domini |
| <hr/> | | | |
| | scandicus | | |
| | sc Cf. ↗ | | sclst2 minus letter |
| | sc1 | L820 | quia |
| | sclst2 | L78H | quotiescumque |
| | sc1lsc4 | L109P | vocavit |
| <hr/> | | | |
| | orrectus flexus | | |
| | pf | L78H | corpus |
| | pf1 | L95D | exaudi |
| | pf2 | L101V | Sorec, |
| | pfS | L56D | festina |
| | pfM Cf. ↗ | | pfMlsmd3 minus letter |
| | pfMlsmd3 | L81E | meam, |
| | pf> | L164D | ad |
| | pf>1 | L90D | miserunt |
| | pf>2 | L104I | alleluia, |
| | pf | L95D | clamor |
| | pf 1 | L31D | ad |
| <hr/> | | | |
| | pes subbipunctis | | |
| | tosu1 | L820 | Domine |
| | tosuni1 | L95D | fumus |
| | tosun2 | L105N | revolvit |
| | vippn1su2 | L820 | misericordiae |
| | topp1su1 Cf. ↗ | | topp1su1lsa6 minus letter |
| | topp1su1lsa6 | L95D | ad |
| | pesu2 Cf. ↗ | | pesu2lst3 minus letter |
| | pesu2lst3 | L152I | eruas |
| | pesun3 Cf. ↗ | | pesun3lss1lsa3 minus letters |
| | pesun3lss1lsa3 | L67S | medio |
| | pesu2sun1 | L24T | terrae |
| | tosun1lsa5 | L67S | tua, |
| | tosu1lsc5 | L19B | venit |
| | toSsun1lsa5 | L138S | luna |
| | tosun1su1sun1 | L33S | venti. |
| | tosun1su2lssn3lst6 | L112D | nomine |
| | tosun2lsa6 | L123A | alleluia. |
| <hr/> | | | |
| | scandicus flexus | | |
| | sf | L78H | meo |
| | sfG | L33C | eam. |
| <hr/> | | | |
| | torculus resupinus | | |
| | tr | L78H | sumitis |
| | trS | L95D | Domine, |
| | tr> | L64D | diligent |
| | poppn1 | L820 | vero |
| | po>ppn1 | L820 | secundum |
| | po>ppn1ppz1 | L18L | faciem |
| | po>pp2 | L28G | angeli, |
| | trlst3lshp7 | L109P | alleluia. |
| | trlss1lss3 | L103P | Christus. |
| | trSlscl | L103P | nostrum |
| <hr/> | | | |
| | distropha | | |
| | ds Cf. ↗ | | ds1lst2 minus letter |
| | ds1lst2 | L95D | meam |
| | ds1lst8 | L71D | effundam |
| | ds1 Cf. ↗ | | ds1pp3 minus prepunctis |

| | | | |
|-------|---------------------|-------|-----------------------|
| | tristropha | | |
| | ts | L820 | fac |
| | ts1 | L76E | Eripe |
| | ts> | L56D | adiuvandum |
| | ts>1 | L103R | alleluia |
| | tslsa2 | L13A | tecum |
| | tslsc2lsc2 | L58A | Domine, |
| | ts>lsc2 | L103R | alleluia |
| | ts>lsc6 | L103T | dum |
| <hr/> | | | |
| | trigonus | | |
| | tg | L67S | tua, |
| | tglns8 | L67S | mala |
| | tgls9 | L103R | alleluia |
| <hr/> | | | |
| | bivirga | | |
| | bv | L820 | Domine |
| | bvlsa2 | L820 | nobis |
| <hr/> | | | |
| | trivirga | | |
| | tv | L103H | bonus |
| | tvlsm2 | L44I | Elevatio |
| <hr/> | | | |
| | pressus | | |
| | pr | L95D | veniat |
| | pi Cf. ↗ | | c11!pi minus clivis |
| <hr/> | | | |
| | virga strata | | |
| | vs | L64D | Deus |
| | vsG | L64D | suavis |
| <hr/> | | | |
| | oriscus | | |
| | or Cf. ↗ | | ocG minus uncinus |
| | orlst3 | L103P | Alleluia. |
| | or1 Cf. ↗ | | ocG1 minus uncinus |
| | or> Cf. ↗ | | or>lsc1 minus letter |
| | or>lsc1 | L103R | alleluia, |
| <hr/> | | | |
| | salicus | | |
| | sa | L820 | nomini |
| | sa1 | L78H | novi |
| | sa>1 | L9E | sanctos |
| | salsc4 | L93G | exsurge |
| | salsc6 | L93G | autem, |
| | sa1lsc4 | L81E | salvasti |
| | sa1lsc6 | L113E | bonus, |
| <hr/> | | | |
| | pes quassus | | |
| | pq | L103H | eius. |
| | pq1 | L169A | Alleluia. |
| | | | L174T |
| <hr/> | | | |
| | quilisma | | |
| | ql Cf. ↗ | | qlsst2 minus letter |
| | qlsst2 | L53C | Domine, |
| | ql> Cf. ↗ | | ql>ppn1 minus uncinus |
| <hr/> | | | |
| | pes stratus | | |
| | pt1 | L13A | ventris |
| | pt2 | L8U | confundentur, |
| | pt3 | L94C | Domine. |
| <hr/> | | | |
| | subpunctis | | |
| | su1 Cf. ↗ | | c11!pi!tosu1 |
| | su1sun1 Cf. ↗ | | cl1!toppz1su1sun1 |
| | su1sun1su1 Cf. ↗ | | visu1sun1su1lst6 |
| | su1sun1su2 Cf. ↗ | | visu1sun1su2lss1lst6 |
| | su1sun2 Cf. ↗ | | pusu1sun2 |
| | su1sux1 Cf. ↗ | | popp2su1sux1 |
| | su2 Cf. ↗ | | cl1!pi!pesu2 |
| | su2sun1 Cf. ↗ | | clsu2sun1lst6 |
| | su3 Cf. ↗ | | pusu3 |
| | su4 Cf. ↗ | | pusu4 |
| | sun1 Cf. ↗ | | cl1!pi!orsun1 |
| | sun1su1 Cf. ↗ | | unsun1su1lst2lsc6 |
| | sun1su1sun1 Cf. ↗ | | visun1su1sun1 |
| | sun1su2 Cf. ↗ | | qlppn1sun1su2 |
| | sun2 Cf. ↗ | | qlsun2 |
| | sun2su1 Cf. ↗ | | unsun2su1 |
| | sun2su2 Cf. ↗ | | unsun2su2 |

| | |
|------------------|--------------------------------|
| sun3 Cf. | unsun3 |
| sun4 Cf. | bvsun4 |
| sux1 Cf. | posux1 |
| prepunctis | |
| pp1 Cf. | pupp1su2 |
| pp2 Cf. | cl1!pipp2 |
| pp2ppn1 Cf. | vipp2ppn1 |
| pp3 Cf. | vipp3lsn3 |
| pp4 Cf. | vipp4lst2 |
| ppn1 Cf. | po>ppn1 |
| ppn1pp1 Cf. | vippn1pp1 |
| ppn1pp1ppz1 Cf. | vippn1pp1ppz1lst8 |
| ppn1ppq1 Cf. | vippn1ppq1 |
| ppn1ppz1 Cf. | ql!cl!orppn1ppz1 |
| ppn1ppz1ppq1 Cf. | vi>1ppn1ppz1ppq1 |
| ppn2 Cf. | vippn2lst3lsa4 |
| ppn2ppz1 Cf. | vippn2ppz1sun1lsa5 |
| ppn2ppz1ppq1 Cf. | vippn2ppz1ppq1lst2lsa8 |
| ppn3 Cf. | unppn3sun1lsa5 |
| ppn3ppz1 Cf. | toppn3ppz1sun1 |
| ppn4 Cf. | vippn4 |
| ppq1 Cf. | vippq1 |
| ppz1 Cf. | puppz1su2 |
| ppz1ppq1 Cf. | vi>1ppz1ppq1 |
| combined glyphs | |
| pe!ta Cf. | pe!talsa2 minus letter |
| pe!talsa2 | L820 iudicio |
| pe!talsc1lst2 | L114C revelavit |
| pe!un Cf. | pe!unlsc2 minus letter |
| pe!unlsc2 | L95D meam |
| pe!pu | L95D eius. |
| pe!ta>2 Cf. | pe!ta>2lsa2 minus letter |
| pe!ta>2lsa2 | L60E gentes |
| pe!or | L93G induebam |
| qlppn1sun1 | L53C Domino, |
| qlppn1sun1su2 | L820 tibi |
| qlppn1su1sun2 | L95D frixorio |
| qlppn1su2 Cf. | qlppn1su21sn11 minus letters |
| qlppn1su21sn11 | L75V mortuus. |
| qlppn1sun1sc5 | L54B quoniam |
| qlppn1su1sun1 | L107H fecit |
| qlsu1sun1 | L43L tua |
| qlsu1sux1 | L71D aquam |
| qlsu2 | L67S tua, |
| qlsux1 | L53C quoniam |
| qlsun1su2 | L44I mearum |
| qlsun1 Cf. | qlsun1lsa5 minus letter |
| qlsun1lsa5 | L40Q millia |
| qlsun2 | L122N alleluia. |
| qlsun21sa5 | L125U alleluia. |
| ql!po | L820 obedivimus |
| ql!poppz1 Cf. | ql!poppz1lsa3 minus letter |
| ql!poppz1lsa3 | L95D Domine, |
| ql!poppn1 | L43L Domine, |
| ql!posu1sun1 Cf. | ql!poppz1su1sun1 minus uncinus |
| ql!poppz1su1sun1 | L43L mandata |
| ql!posu1 Cf. | ql!poppn1sun1 minus uncinus |
| ql!poppn1sun1 | L61I Iustitiae |
| ql!poppn1lst2 | L103P Alleluia. |
| ql!posux1 Cf. | ql!poppn1su1sun1 minus uncinus |
| ql!poppn1sux1 | L61I corda, |

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|--------------------|----------------------------------------|---------------|
| ql!polsm1 | L103P | immolatus |
| ql!polsa1lsa3lsa9 | L56P | nostris |
| ql!po> Cf. | ql!po>ppn1 minus uncinus | |
| ql!po>ppn1 | L60A | ancillae |
| ql!cl | L43L | doceas |
| ql!cl!to Cf. | ql!cl!tolst6 minus letter | |
| ql!cl!tolst6 | L95D | me. |
| ql!cl!to or Cf. | ql!cl!orsun1 minus uncinus | |
| ql!cl!to orsun1 | L19B | nobis. |
| ql!cl!toppn1 | L72B | vitam, |
| ql!cl!tosu3 Cf. | ql!cl!tosu3lst6 minus letter | |
| ql!cl!tosu3lst6 | L82T | hostias, |
| ql!cl!or Cf. | ql!cl!orppn1ppz1 minus uncinus & virga | |
| ql!cl!orppn1ppz1 | L109P | Populus |
| ql!cl!tr> Cf. | ql!cl!tr>ppz1 minus virga | |
| ql!cl!tr>ppz1 | L54B | vias |
| ql!clppn1 | L54B | a |
| qlppn1 | L820 | nomini |
| qlppn1ppz1 | L820 | gloriam |
| qlppn1ppz1lst2 | L820 | da |
| qlppn1ppz1sun1 Cf. | qlppn1ppz1sun1lsa5 minus letter | |
| qlppn1ppz1sun1lsa5 | L54B | mihi |
| qlppn1ppz1su1sun1 | L43I | dominorum |
| qlppn2sun1 Cf. | qlppn2sun1lsa5 minus letter | |
| qlppn2sun1lsa5 | L53C | Beati |
| qlppn2sun2 Cf. | qlppn2sun21sa5lsa5 minus letters | |
| qlppn2sun21sa5lsa5 | L122V | sic |
| qlppz1su2 | L40Q | draconem. |
| qlppz1su1sun1 | L53C | nos |
| ql>ppn1 | L95D | confixia |
| ql>ppn1lsc3 | L90D | speraverunt |
| popp2 | L820 | multitudinem |
| popp2su1sux1 | L8U | confundentur, |
| posux1 | L20P | eius |
| posux1lsa5 | L114V | alleluia, |
| posun1lsa5 | L123A | alleluia. |
| poMsun1 | L81E | meos |
| posu1sun1 | L123E | alleluia. |
| vippn1su1 | L56D | Deus |
| vippn1sux1 | L53C | Memento |
| vippn1su1sun1 | L45R | tuae, |
| vippn1su1sun1lst2 | L95D | Domine, |
| vippn2sun1 Cf. | vippn2sun1lsa4 minus letter | |
| vippn2sun1lsa4 | L44I | mea |
| vippn2 Cf. | vippn21sa4 minus letter | |
| vippn21sc4 | L56D | quaerunt |
| vippn21sa4 | L44I | Elevatio |
| vippn2lst3lsa4 | L103P | Alleluia. |
| vippn3 | L38I | Domino, |
| vippn4 | L60E | homo |
| vipp2ppn1 | L13A | gratia |
| cl!pe Cf. | cl!pelsc2 minus letter | |
| cl!pelst2 | L95D | sum |
| cl!pelsc2 | L105A | Domini |
| cl!pelsn7 | L103H | ea. |
| vipp2su2 | L43L | mihi |
| vipp2sun1lsa5 | L168L | eum |
| vipp3 Cf. | vipp31sn3 minus letter | |

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|------------------------|--------------------------------------|--------------|------------------------|---------------------------------|-------------------|
| vipp3lsn3 | L152S | Sicut | to!clM | L77C | corde |
| vippn1pp1 | L11Q | Israel, | to!cl>1 | L77C | tuum, |
| vippn1pp1su1sun2 | L40Q | volante | to!po | L84B | Appropinquaverunt |
| vippn3su4 | L173D | Alleluia. | to!pohd | L105A | quaeritis, |
| vipp4 Cf. ↗ | vipp4lst2 minus letter | | to!to Cf. ↗ | to!toppn1sun1 minus 2x uncinus | |
| vipp4lst2 | L13A | Ave | to!tosuni Cf. ↗ | to!toppn1sun1 minus uncinus | |
| vippz1ppq1 | L40Q | lapidem | to!toppn1sun1 | L43L | discam |
| vippn1ppq1 | L33S | venti. | to!to!pi!cl Cf. ↗ | to!to!pi!clpp2 minus prepunctis | |
| vippn1ppz1ppq1 | L101V | Israel | to!to!pi!clpp2 | L60A | nostrum, |
| vippn1pp1ppz1 Cf. ↗ | vippn1ppz1lst8 minus letter | | toS!to | L53C | Confitemini |
| vippn1pp1ppz1lst8 | L25M | ore | toS!tolst9 | L90D | Deus, |
| vippn2ppz1ppq1 Cf. ↗ | vippn2ppz1ppq1lst2lsa8 minus letters | | toS!pe | L123E | Exaudi, |
| vippn2ppz1ppq1lst2lsa8 | L169A | confitebor | to!or | L67S | Domine. |
| vippn2ppz1sun1lsa5 | L173D | Alleluia. | to!orsun1lsa5 | L8U | Domine. |
| vippn3sun1lsa5 | L173D | Alleluia. | to!orlst3 | L114V | audiatur, |
| vippq1 | L168S | regna. | to!orlsc6 | L152S | taurorum, |
| cl1!or Cf. ↗ | cl1!orlss3 minus letter | | to!pi!cl | L31D | est, |
| cl1!orlss3 | L60E | iudicentur | to!pi!cl!pi!pi | L40Q | millia |
| cl1!orlsc3 | L60E | conspectu | to!pi!cl!pi!orsun1lsa5 | L40Q | speravit, |
| cl1!pi | L95D | avertas | oc!vi Cf. ↗ | oc!visun1 minus uncinus | |
| cl1!pi> | L53C | misericordia | oc!visun1 | L95D | Domine, |
| cl1!pi!to | L820 | fecisti | orsui1sun1 | L94C | Domine. |
| cl1!pi!vi | L95D | Domine, | orsui1sun1sc2 | L94C | Domine. |
| cl1!pi!vi> | L67S | Virga | orsui1sun1sc3 | L94C | iniquis |
| cl1!pi!cl | L640 | implebis | un!clG | L95D | exaudi |
| cl1!pi!pesu2 | L61I | dulciora | topp2 | L95D | meus |
| cl1!pilsm3lsa6 | L174I | me | topp2sun1 | L45R | tuarum, |
| cl1!pilsn8 | L53C | iudicium, | toppn3ppz1sun1 | L58A | me. |
| cl1!pilsn9 | L640 | Aperis | to>pp2 | L90D | insipientiam |
| cl1!pilst9 | L90D | Longe | pupp2su1sun1 | L95D | sunt. |
| cl1!pipp2 | L60A | Deum | pupp2su2 | L93E | me. |
| cl1!pi!orsun1 | L90D | Israel. | pupp1su2 | L640 | opportuno. |
| cl!po | L67S | es, | pupp1su1sun1 | L58A | clamavi, |
| cl!popp3 | L122V | ascendentem | puppn1su1sun2 | L40Q | mille, |
| cl!to | L17H | eius. | puppz1su1sun2 | L40Q | mille, |
| cl!tosu1 | L17H | eius. | puppz1su2 | L168S | tua |
| cl!tosu1lsc6 | L81E | me | ds!ds1 | L43L | meos, |
| cl!tosu1lsc6lst8 | L81E | me | ds!ts | L67S | mecum |
| cl!topp2 | L64D | misericordia | ds!ts1 | L60E | tuo. |
| cl!toppz1su1sun1 | L35T | Israel | cl1!orsun1 | L43L | considerabo |
| cl!tolst9 | L56I | dilexit | cl1!orsun1lsa5 | L8U | fac |
| cl!to> | L56I | aequitatem | cl!or Cf. ↗ | cl!orpp2 minus prepunctis | |
| cl!tosun1lsa5 | L164D | meam. | cl!orpp2 | L93G | induebam |
| cl!to!pi Cf. ↗ | cl!to!pipp2 minus prepunctis | | cl1!orpp2 | L103R | mirabilis |
| cl!to!pipp2 | L33C | arcus, | ds!clsun2 Cf. ↗ | ds1!clsun2lst5 minus letter | |
| cl!to!pi!cl | L77S | Israel | ds!clsun2lst5 | L43L | doceas |
| cl!to!pi!clpp2 | L33C | eius, | ds1!clsuisun1 Cf. ↗ | ds1!clsuisun1lst5 minus letter | |
| cl!to!pi!clpp2lsn9 | L68Q | Sion | ds1!clsuisun1lst5 | L56S | Salvum |
| cl!to!cl!cl | L81R | meis, | ds1pp3 | L149E | tibi. |
| to!cl | L95D | Domine, | vi>1pp2 | L67S | umbrae |
| to!cl!cl Cf. ↗ | to!cl!cllst9 minus letter | | vi>1ppz1ppq1 | L40Q | custodiant |
| to!cl!clsun2 Cf. ↗ | to!cl!clsun2lsa5 minus letter | | vi>1ppn1ppz1ppq1 | L106S | Alleluia. |
| to!cl!clsun2lsa5 | L43L | tuam | pfsun1 Cf. ↗ | pfsun1lsn5 minus letter | |
| to!cl!cllst9 | L8A | invocavite. | pfsun1lsn5 | L67S | tua, |
| to!cl!clsu1 | L33P | meam. | pfpn1ppq1sun1lsa5 | L123A | Deus |
| to!cl!pi | L84B | iniqui | un1ppn1ppq1sun2 | L1120 | estis, |
| to!cl!orsun1 | L114V | terrae | un1sun2 Cf. ↗ | un1ppn1ppq1sun2 minus uncinus | |
| to!clsun1 | L54B | quoniam | | | & quilisma |
| to!clsun1lsa5 | L11Q | Ioseph. | un1ppn1sun2 | L1120 | Christum |
| to!clsu2 Cf. ↗ | to!clsu2lsn6 minus letter | | un1ppn1sun1su2lsa5 | L152I | accelera, |
| to!clsu2lsn6 | L8D | dabit | clsun1lst5 | L44I | vespertinum. |
| to!clsu1sun1 Cf. ↗ | to!clsu1sun1sm6 minus letter | | clsu3lst5 | L60E | tuo. |
| to!clsu1sun1lsn6 | L24D | opera | tosu1sun1 Cf. ↗ | tosu1sun1lsn6 minus letter | |
| clsu2sun1lst6 | L35T | tuam. | tosu1sun1sc6lst7 | L109P | vocavit |

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| tosuisun1lsn6 | L19B | venit |
| tosu2 Cf. <i>¶</i> | tosu2lst6 | minus letter |
| tosu2lst6 | L37M | tu |
| tgsun1lsa5 | L103H | quoniam |
| cl!cl!clsun1lsa5 | L103P | Alleluia. |
| cl!cl!cl Cf. <i>m</i> | cl!cl!cllsn9 | minus letter |
| cl!cl!cllsn9 | L31D | Domine |
| cl!cl!pi | L54B | commovear |
| cl!cl!pi!vi | L123A | Dominus |
| cl!cl!to | L149E | meam, |
| cl!cl!po | L81R | insurgentibus |
| cl!pi!pi!vi | L54B | es |
| cl!pi!pisun1lsa5 | L1740 | plaudite |
| cl1!pi!tosu1 | L37S | mei |
| cl1!pi!tosu1 | L1740 | plaudite |
| saisun1lsa5 | L11Q | tuam |
| trsun2 Cf. <i>N</i> | trsun2lsa5 | minus letter |
| trsun2lsa5 | L13A | Ave |
| trsux1 Cf. <i>N</i> | trsux1lsa5 | minus letter |
| trsux1lst8 | L20P | eius, |
| trsux1lsa5 | L136A | aeternam |
| trsux2 Cf. <i>N</i> | trsux2lst3lsm8 | minus letters |
| trsux2lst3lsm8 | L136A | vobis |
| trsun1su2 Cf. <i>N</i> | trsun1su2lsa3 | minus letter |
| trsun1su2lsa3 | L149C | Domini |
| trsun1lsa3lsa5 | L18L | terra |
| trsun1lsa5 Cf. <i>N</i> | trsun1lsa3lsa5 | minus letter |
| bvsun4 | L8U | me. |
| oc!cl | L31D | Domine. |
| oc!clm | L77S | peccatorum. |
| oc!pe!pu | L53C | tuo. |
| tg!cl | L31D | est, |
| tg!cl>1 | L33C | eius, |
| tg!cllsn9 | L68Q | Sion |
| tg!or | L77C | tibi |
| unppn1sun2 | L40Q | Cadent |
| unppn1sun2lsa5 | L123E | quaesivi |
| unppn1sun1 | L72B | eius |
| unppn1sun1lsa5 | L24D | exaltavit |
| unppn1sun1su2 | L58A | Domine, |
| unppn1ppz1sun1 Cf. <i>N</i> | unppn1ppz1sun1lsa5 | minus letter |
| unppn1ppz1sun1lsa5 | L80S | habitat |
| unppn3sun1lsa5 | L24D | fecit |
| ta>ppn1 | L95D | et |
| ta>pp2 | L33C | ut |
| pt1ppn1 | L99P | tuo. |
| tssun1lsa5 | L24D | dextera |
| cl>1pp2 | L114C | alleluia, |
| tasu2 | L24T | tuam. |

| significative letters | | | |
|-----------------------|-------------------|--------------------|-------------------------------------------|
| ¶ | lsa Cf. <i>¶</i> | vi>lsa6 | augete |
| · | lsc Cf. <i>·</i> | pe!unlsc2 | celeriter |
| ¶ | lseq | L78H hic | equaliter |
| ¶ | lseq- | L78H quotiescumque | equaliter |
| ¶ | lsequ | L56D confundantur | equaliter |
| ¶ | lsf Cf. <i>¶</i> | polsf2lst3 | fastigium |
| · | lsh | L44D a | humiliter |
| ¶ | lshn Cf. <i>¶</i> | cllshn8 | humiliter nectum |
| ¶ | lshp Cf. <i>¶</i> | trlst3lshp7 | humiliter parum |
| · | lsl Cf. <i>·</i> | pelsl2 | levare |
| · | lsn Cf. <i>·</i> | cllsn9 | non (tenere), negare, nectum, naturaliter |
| · | lsnl Cf. <i>·</i> | clGlsnl2 | non levare |
| · | lsnt Cf. <i>·</i> | pulsnt3 | non tenere |
| · | lsm | L67S Virga | mediocriter |
| · | lsmd | L820 da | mediocriter |
| · | lss | L95D tempus | sursum |
| · | lssimp | L8U Domine, | simpliciter |
| · | lssimpl | L81R insurgentibus | simpliciter |
| · | lssp | L54Ae Domine, | sursum parum |
| · | lsst Cf. <i>·</i> | pelsst1lsm4 | sursum tenere |
| · | lst Cf. <i>·</i> | clsun1lst5 | tenere |
| · | lsth Cf. <i>·</i> | tolsth8 | tenere humiliter |
| tironian notes | | | |
| · | lti | L78H pro | iustum |
| · | ltdo | L140 misericordiam | deorsum |
| · | ltdr | L132E descendit | devertit |
| · | ltdx | L122V intuerentus | devexum |
| · | ltps | L128S veniat, | prode sub eam (trade subtus) |
| · | ltqm | L118E sum | quam mox |
| · | ltsb | L11Q et | sub |
| · | ltse | L144C corde | seorsum |
| · | ltsj | L164D meam | subjice |
| · | ltsl | L117R delectati | saltim |
| · | ltsn | L17H gloriam | sonare |
| · | ltsp | L10I Ierusalem | supra |
| · | ltsr | L14P et | sursum |
| · | ltsl | L25L omnes | saltate (salte) |
| · | ltus | L17H eius. | ut supra |