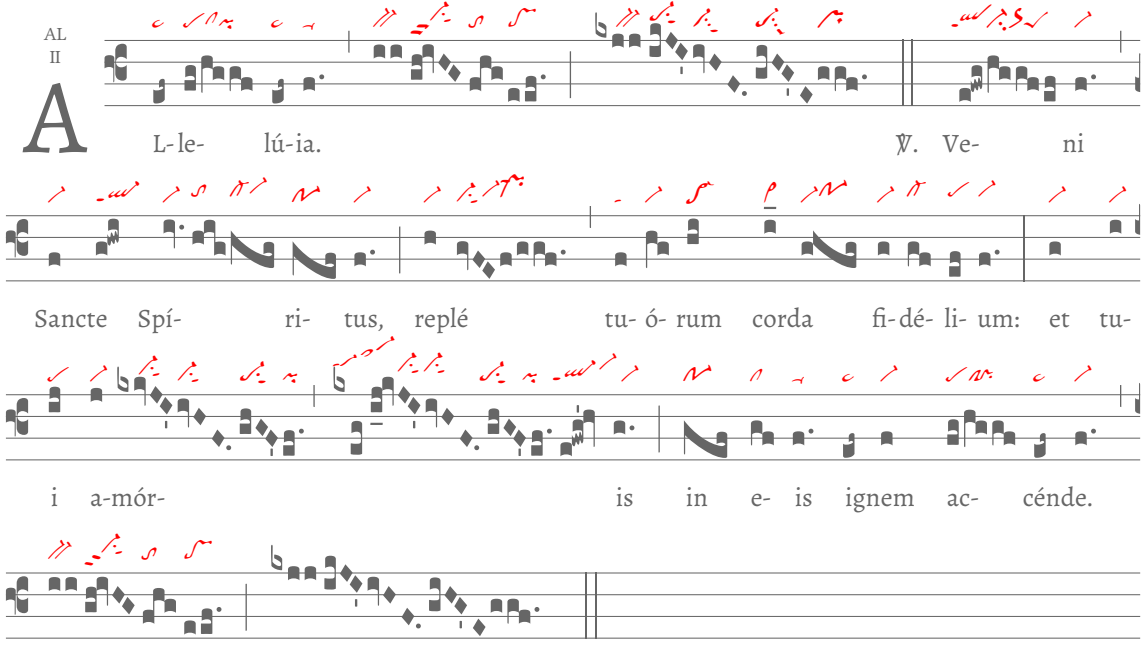# nabc language for gregorio

AL II

A

L-le- lú-ia. ℣. Ve- ni Sancte Spí- ri- tus, replé tu- ó- rum corda fi- dé- li- um: et tu- i a-mór- is in e- is ignem ac- cénde.

The `nabc` language provides the ability to describe some adiastematic neumes, for now just the St. Gallen 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 descriptor*s, optionally followed by a sequence of *significant letter descriptor*s.

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 descriptor*s, 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 *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 clivis	pf porrectus flexus	tg trigonus	or oriscus	
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 clivis 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 `m`. 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 descriptor*s in the *complex glyph descriptor*, it is best to use the same one on all the other *basic glyph descriptor*s 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	`lssb` sursum bene
`lsam` altius mediocriter	`lsk` klenche	`lssc` sursum celeriter
`lsb` bene	`lsl` levare	`lssimil` similiter
`lsc` celeriter	`lslb` levare bene	`lssimul` simul
`lscm` celeriter mediocriter	`lslc` levare celeriter	`lssm` sursum mediocriter
`lsco` coniunguntur	`lslen` leniter	`lsst` sursum tenere
`lscw` celeriter (wide form)	`lslm` levare mediocriter	`lssta` statim
`lsd` deprimatur	`lslp` levare parvum	`lst` tenere
`lse` equaliter	`lslt` levare tenere	`lstb` tenere bene
`lseq` equaliter	`lsm` mediocriter	`lstm` tenere mediocriter
`lsew` equaliter (wide form)	`lsmoll` molliter	`lstw` tenere (wide form)
`lsfid` fideliter	`lsp` parvum	`lsv` valde
`lsfr` frendor	`lspar` paratim	`lsvol` volubiliter
`lsg` gutture	`lspfec` perfecte	`lsx` expectare
`lsi` iusum	`lspm` parvum mediocriter	
`lsim` iusum mediocriter	`lss` sursum	

Finally a commented example of a `nabc` snippet:

```
```po////pe>2lse7lsl3qlhh!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>2lse7lsl3` 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.
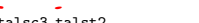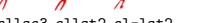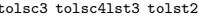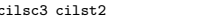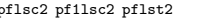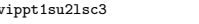
Names of Symbols	Simple Symbols	Symbols differentiated by				Symbols indicating a special meaning		
		the addition		the modification		melodic	phonetic	
		of letters	of episemas	of the mark	of the grouping (neumatic break)		liquescence	
							augment.	diminut.
virga	vi	vilsc3 vilst1 vippt1lsc2	vi-				vi>	
tractulus	ta	talsc3 talst2					ta>	
punctum	pu						st visu1sux1	
gravis	gr							
clivis	cl	cllsc3 cllst2 cl-lst2	cl- clS-	clS clS1		clM	cl> cl>1	cl
pes	pe		pe- pe-1	peS	peG	peG	pe> 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>	pe>
climacus	ci ci1	cilsc3 cilst2	ci-	ciS ciS1 visut1su2	ciG ciG1	ciM	ci>	ci
scandicus	sc		sc-	scS	scG scG1	scM1	sc>	sc
	sc1		vi-hevi-hivi-hm			vihevihivihm		
porrectus flexus	pf	pflsc2 pf1lsc2 pflst2	pf-	pfS	sfM	pfM	pf>	pf
pes subbipunctis	pesu2	vippt1su2lsc3	pe-su2 pe-1su2 / pe-1sut2	peSsu2 peSsut2	vippt1su2 / toS2sut1	vi-!ci pesu1suw1	pesu1sux1	to>
scandicus flexus	sf	sflsc3	sf-	sfS	vi-tohk peclhi	sfM	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-			tsM	ts>	
trigonus	tg tg1			tgS tgS1 tgS3		tgM		ds>
bigirga & trivirga	bv tv		bv- tv-				bv>	
pressus	pr pi	prlsc2 pr-lsc2 prlst2 / pilsc2 pilst2	pr-			prM	pr> pi>	vs> / or>
virga strata	vs	vslsc3 vslst2	vs-				vs>	ta>
oriscus	or						or>	
salicus	sa sa1	salsfr1 saM1lsfr1	sa- sa-1		saG	saM saM1 saM2	sa> sa->1	pe>2
pes quassus	pq	pqlsfr1	pq-				pq>	
quilisma	ql qi		ql- qi-				ql> qi>	
pes stratus	pt							

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

Table with nabc strings and corresponding gregall and gresgmodern glyphs:

nabc string	gregall	gresgmodern
bv		
bv-		
bv>		
ci		
ci-		
ci-pp2		
ci1		
ci>		
ciG		
ciG1		
ciM		
ciM-	missing	
ciS		
ciS1		
ciSppt1		
cilsc3		missing
cippt1		
cippt1lsc3		missing
cippu1		
cippu1lsc3		missing
ci~		
cl		
cl!cl>1		
cl!clS		
cl!clSsut2		
cl!pi		
cl!pilsc1lst3		missing
cl!pilsc2		missing
cl!po		
cl!po-1		
cl!po>		
cl!po>ppt1		
cl!pr		
cl-		
cl-!pi		
cl-1su2		
cl->		
cl->1		
cl-lst2		missing
cl-ppt1	missing	
cl-ppt2		
cl>		
cl>1		
cl>pp2	missing	
cl>ppt2		
clM		
clM-		
clMpp2	missing	
clS		
clS-		
clS-1		
clS-su2		
clS1		
clSsu1sut1		
clSsu2		
clSsut1		
clSsut1sux1	missing	
clSsut2		
clSsux1	missing	
cllsc3		missing
cllst2		missing
clpp2		
clppt1		
clppt2		
cl~		
ds		
ds-		
ds>		
dslsx6		missing
gr		
gr-		
gr-lsc6		missing
lsal		
lsam		
lsb		
lsc		
lscm		
lsco		
lscw		missing
lsd		missing
lse		
lseq		missing
lsew		missing
lsfid		missing
lsfr		
lsg		
lsi		
lsim		
lsiv		missing
lsk		
lsl		
lslb		
lslc		
lslen		missing
lslm		
lslp		
lslt		
lsm		
lsmoll		
lsp		
lspar		missing
lspfec		missing
lspm		
lss		
lssb		
lssc		
lssimil		
lssimul		missing
lssm		
lsst		
lssta		missing
lst		
lstb		
lstm		
lstw		missing
lsv		missing
lsvol		missing
lsx		
or		
or>		
pe		
pe!vi		missing
pe-		
pe-1		
pe-1su1suu1		
pe-1su1suw1		
pe-1su2		
pe-1sut1sux1		
pe-1sut2		
pe-1sut3		
pe-1suw2		
pe->		
pe->1		
pe-su1sut1		
pe-su2		
pe-su2suy1		
pe-su3sut1		
pe>		
pe>1		
pe>2		
pe>ppt1	missing	
peG		
peS		
peSsu1sux1		
peSsu2		
peSsut1su2		
peSsut2		
peSsut3		
peppt1		
pesu1sut1		
pesu1sut3		
pesu1suu1		
pesu1suw1		
pesu1sux1		
pesu2		
pesu2suv1		
pesu3		
pesut2		
pe~		
pf		
pf!cl-		
pf!clM-		
pf!clM-ppt1		
pf!cl~		
pf!cl~ppt1		
pf!pr		
pf-		
pf1lsc2		missing
pf>		
pfG		
pfM		
pfM-	missing	
pfMsut1		
pfMsuu1	missing	
pfS		
pflsc2		missing
pflst2		missing
pf~		
pi		
pi>		
piM	missing	
pilsc2		missing
pilst2		missing
po		
po-		
po-1		

	Glyph 1	Glyph 2
po-1su2		
po-2	missing	
po>		
poG		
poG-		
poG-1	missing	
poG1	missing	
polsc2		missing
posu2		
po~		
pp2		
pp3		
pp4		
pp5	missing	
ppt1		
ppt2		
ppt3		
ppt4		
ppt5		
ppu1		
ppu2		
ppu3		
ppu4		
ppu5		
pq		
pq!cl		
pq!cl-		
pq!cl>		
pq-		
pq>		
pqS		
pqS-	missing	
pqS>		
pqlsfr1		missing
pr		
pr-		
pr-lsc3		missing
pr>		
prM		
prlsc2		missing
prlst2		missing
pr~		
pt		
pu		
qi		
qi!cl		
qi!cl-		
qi!cl>		
qi!clppt1		
qi!po		
qi!vs		
qi!vsppt1		
qi!vsppt1su2		
qi!vssu2		
qi-		
qi-ppt1su1sut2		
qi-su1sut2		
qi-su1sux1		
qi-su2		
qi-sut2		
qi>		

	Glyph 1	Glyph 2
qi>ppt1		
qippt1		
qisut1sux1		
ql		
ql!cl		
ql!cl!cl>		
ql!cl!cl>ppt1		
ql!cl!pi		
ql!cl!pippt1		
ql!cl-		
ql!cl->		
ql!cl->ppt1		
ql!cl-ppt1		
ql!cl>		
ql!cl>ppt1		
ql!clM		
ql!clMppt1		
ql!clS	missing	
ql!clppt1		
ql!pf		
ql!pf-		
ql!po		
ql!po-1		
ql!po-1ppt1		
ql!po>		
ql!poppt1		
ql!po~		
ql!po~ppt1		
ql!vs		
ql!vsppt1		
ql!vsppt1su2		
ql!vsppt1sut2		
ql!vssu2		
ql!vssut2		
ql-		
ql-ppt1		
ql-ppt1su1sut2		
ql-ppt1su1sux1		
ql-ppt1su2		
ql-ppt1sut2suu1		
ql-ppt1suu2		
ql-su1sut2		
ql-su1sux1		
ql-su2		
ql-sut1sux1		
ql-sut2		
ql-sut2suu1		
ql-suu2		
ql>		
ql>ppt1		
qlppt1		
qlsut2		
sa		
sa!cl		
sa!cl-		
sa!cl>		
sa!clS-1		
sa!clS1		
sa!clS1lsc2		missing
sa-		
sa-1		
sa->1		

	Glyph 1	Glyph 2
sa-lsfr1		missing
sa1		
sa1!cl->		
sa1!cl>		
sa>		
sa>1	missing	
sa>2		
saG		
saM		
saM-1		
saM-4		
saM1		
saM2		
saM3		
saM4	missing	
salsfr1		missing
sa~		
sc		
sc-		
sc-1	missing	
sc1		
sc>		
scG		
scG-1	missing	
scG1		
scM	missing	
scM1		
scM2		
scS		
sc~		
sf		
sf-		
sf>	missing	
sfG	missing	
sfG1	missing	
sfM		
sfM1	missing	
sfS		
sflsc3		missing
st		
st-		
st>		
stS		
su1sut1		
su1sut1su1sut1		
su1sut1su2		
su1sut1sux1		
su1sut1suy1		
su1sut2		
su1sut2su1		
su1sut3		
su1suu1		
su1suu1su1		
su1suu1su2		
su1suu2		
su1suv1		
su1suw1		
su1sux1		
su2		
su2sut1		
su2suv1		
su2suw1		

Label	Status
su2sux1	missing
su2suy1	
su3	
su3sut1	
su4	
su5	
sut1su1sux1	missing
sut1su2	
sut1sux1	
sut2	
sut2su2	
sut2suu1	
sut2sux1	missing
sut2suy1	
sut3	
sut3suw1	
sut3suy1	
sut4	
suu1	
suu1su2	
suu2	
suu2su2	
suu3	
suv1	
suv1su2	
suw2	
ta	
ta-	
ta>	
talsc3	missing
talst2	missing
tg	
tg1	
tgM	
tgS	
tgS-	
tgS1	
tgS2	missing
tgS3	
tgS4	
to	
to!ciG	
to!cl	
to!cl!cl	
to!cl!cl!cl	
to!cl!pi	
to!cl!po	
to!cl!po-1	
to!cl-	
to!cl-!cl-	
to!cl-1	
to!clS	
to!pi	
to!po	
to!pr	
to-	
to-1	
to->	
to>	
to>1	
to>pp2	
toG	
toM	
toM-	missing
toM1	
toM2	missing
toM2-	missing
toS	
toS1	
toS2	
toS2su2	
toS2sut1	
toS2sux1	
toS3	
toS3lst2	missing
toS4	missing
toSsu2	
tolsc3	missing
tolsc4lst3	missing
tolst2	missing
toppt1	missing
toppu1	
tr	
tr-	missing
tr-1	
tr-1su2	
tr-2	missing
tr-~	
tr-~1	
tr>	
trG	
trG1	
trG2	
trM	
trS	
trS-	
trS1	
trlst2	missing
tr~	
ts	
ts-	
ts>	
tsM	
tsM-	
tslsx6	missing
tv	
tv-	
vi	
vi-	
vi-!ci	
vi-!vi!vi	
vi-!vi-!vi	
vi->	
vi-lst3	missing
vi-pp2	
vi-pp4	
vi-ppt1	
vi-ppt3	
vi-su1sut1	
vi-su1sut1su2	
vi-su1sut2su1	
vi-su1suu1su1	
vi-su1suu2	
vi-su1suw1	missing
vi-su1sux1	
vi-su2	
vi-su2sut1	
vi-su2suw1	missing
vi-su2sux1	missing
vi-su3	missing
vi-su4	
vi-sut1sux1	missing
vi-sut2	
vi-sut2sux1	missing
vi-sut3	
vi-sut4	
vi-suu1su2	
vi-suu2	
vi-suu2su2	
vi-suu3	
vi>	
vi>pp2	
vi>ppt2	
vi>ppt3	
vilsc3	missing
vilst1	missing
vipp1	
vipp3	
vipp4	
vippt1su1sut1	
vippt1su2	
vippt1su2lsc3	missing
vippt2	
vippt3	
vippu1su2	
vippu1su2lsc3	missing
visu1sut1	
visu1sut1su1sut1	
visu1sut1su2	
visu1sut1sux1	
visu1sut1suy1	
visu1sut2	
visu1suu1	
visu1suu1su2	
visu1suv1	
visu1suw1	
visu1sux1	
visu2	
visu2lsc3	missing
visu2sut1	missing
visu2suw1	
visu2sux1	
visu3	
visu5	
visut1su2	
visut1sux1	
visut2	
visut2su2	
visut2sux1	missing
visut2suy1	
visut3	
visut3suw1	
visut3suy1	
visut4	
visuu1su2	
visuu2su2	
visuv1su2	
vs	
vs-	
vs->	

vs>

vslsc3

missing | vslst2

vs~

missing

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.

Most of the glyphs taken from the e-codices Virtual Manuscript Library of Switzerland, `http://www.e-codices.unifr.ch/en`, with permission from Stiftsbibliothek, St. Gallen `http://www.stibi.ch/` and Stiftsbibliothek, Einsiedeln `http://kloster-einsiedeln.ch/`, the picture fragments from there are only present in the font source file to help drawing the glyphs.

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
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
C134B Benedicite 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
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
E69P Posuisti Domine GT477
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 Benedicite gentes Domino GT231
E158D Domine ad adiuvandum OT42
E161S Sitientes 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
E248V Viri Galilaei GT235
E255S Spiritus Domini GT252
E256C Confirma 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`
H195 = `http://www.e-codices.unifr.ch/en/download/csg-0391_001/max`
H16A Aspiciebam in visu NR111
H16M Missus est Gabriel NR111
H16V Ave Maria NR113

H23E Egredietur Dominus de Samaria NR129
H25E Ecce mitto Angelum AM201
H26G Grata facta est NR25*
H28Q Qui venturus est NR134
H29E Ecce radix Jesse NR137
H32N Nascetur nobis NR149
H33I Iuravi dicit Dominus NR151
H35G Germinaverunt campi NR144
H36A Adnuntiatum est
H48B Beata et venerabilis
H50Q Quem vidistis pastores AM240
H72V Venit lumen tuum AM290
H72H Hodie in Iordane NR229
H73O Omnes de Saba NR237
H73S Stella ista NR242
H74I Illuminare, illuminare NR236
H75I In columbae specie NR231
H75V Videntes stellam NR242
H77S Stella ista AM291
H77A Ab Oriente AM297
H87E Exaudi Deus
H103S Spes nostra salus NR512
H103M Magnus Dominus NR516
H104T Te Deum patrem
H112S Stans a dextris AM798
H118G Gaude, Maria Virgo NR130*
H119C Cum inducerent
H179L Liberavit Dominus ARII183
H179A Amicus meus osculi NR381
H179I Iudas mercator NR382
H266D Domino si in tempore
H269S Spiritus Sanctus
H269D Dum complerentur NR493
H269R Repleti sunt omnes NR494
H270S Spiritus Domini AM520
H271L Loquebantur variis AM521
H367V Viri sancti NR[54]
H424M Magnificat
H428A Ascendens Iesus AM593
St. Gall codex 339
G1 = http://www.e-codices.unifr.ch/en/download/csg-0339_033/max
G56 = http://www.e-codices.unifr.ch/en/download/csg-0339_088/max
G57 = http://www.e-codices.unifr.ch/en/download/csg-0339_088a/max
G58 = http://www.e-codices.unifr.ch/en/download/csg-0339_089/max
G8E Exulta satis OT11
G9A Alleluia Veni Domine GT36
G11P Puer natus est GT47
G11V Viderunt omnes GT48
G12T Tui sunt caeli OT18
G20I Iubilate Deo universa terra GT227

G22D Domine quinque talenta GT515
G25P Posuisti Domine GT477
G30E Exsurge quare obdormis GT91
G35D Domine vivifica me OT31
G42D Domine Deus salutis OT112
G44P Precatus est Moyses GT317
G45D Domine in auxilium OT106
G51I Intende voci GT280
G51S Si ambulabem GT125
G57F Factus est Dominus GT119
G89D Domine Deus in simplicitate OT159
G113A Alleluia. Dilexit Andream GT625
G116C Cantabo Domino GT283
G126D Alleluia. Domine Deus meus GT282
G128A Alleluia. Attendite popule
G132A Alleluia. Mirabilis Dominus GT462
G132V Alleluia. Vox exultationis
G139A Asperges me Domine
G140O Oremus dilectissimi nobis
G141O Omnipotens Deus
St. Gall codex 376
N1 = http://www.e-codices.unifr.ch/en/download/csg-0376_001/max
N39H Hodie cantandus est nobis
N53A Audite fratres dilecti
N59N Nativitatem venerandam
N65G Gloriatis laus tua Deus
N67G Gloria in excelsis Deo
N68G Gloria in excelsis Deo
N69G Gloria in excelsis Deo
N73G Kyrie eleison
N86D Dilexisti iustitiam GT498
N100T Tui sunt caeli OT18
N171D Deus exaudi orationem GT107
N221N Alleluia. Non vos relinquam GT242
N270A Alleluia. Benedictus es GT375
N293A Alleluia. Sancti tui, Domine, benedicent GT463
N296V Alleluia. Veni Sancte Spiritus GT263
N363C Carmen suo dilecto
N368L Letamente canamus Domino nostro
N372O O quam mira sunt Deus
St. Gall codex 374
A1 = http://www.e-codices.unifr.ch/en/download/csg-0374_001/max
A17T Tui sunt caeli OT18
A22V Vox in Rama GT638
A26F Fili quid fecisti GT51
A56C Custodi me Domine GT304
A127E Exultabunt sancti OT143
A167O Oravi Deum meum OT107
A174A Alleluia. Eripe me GT308
Bamberg, lit. 6, Gradual of St. Emmeram
B9v = http://bsbsbb.bsb.lrz-muenchen.de/~db/0000/sbb00000128/images/index.html?id=00000128no=19&seite=22&signatur=Msc.Lit.6
B9vA Anima nostra GT466

virga

	code	word	
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

	code	word	
ta	C26A	Domine	
talsc3	E262S	saeculum	2.166x
talst2	C56D	Desiderium	
ta-	C81E	antiquis.	
ta>	C25U	et	
suv1 Cf.	pesu2suv1		

punctum

	code	word
pu	C137A	Audi
Cf. st		
Cf. ci>		

gravis

	code	word
gr	H271L	Loquebantur
gr-	H270S	Spiritus
gr-lsc6	H270S	replevit

clivis

	code	word
cl	C780	sperant
cllsc3	C26A	nobis
cllst2	C25U	exspectant
cl-lst2	C52P	pretioso.
cl-	C780	omnium
clS-	C81E	opem
clS	C780	opportuno.
clS1	H424M	potentiam
clM	C148V	nostro
Cf. cl>		
cl>1	H36A	virginis
Cf. vi>		
cl->1	H50Q	natum
cl->	H50Q	angelorum
clM-	C27Q	super
clS-1	H428A	navem

pes

	code	word	
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

	code	word	
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-	A167O	meum	
posu2	C46O	gloria	
po-1su2	H269R	alleluia	

torculus

	code	word	
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	C39B	mirabile	
to>	C26A	misericordiam	
Cf. pe>			
toS3lst2	C59D	tuae	
pq!cl-	C87E	sanasti	
to>1	E130I	obdormiam	2.166x
to->	E158D	respexit	2.166x
toS2sux1	C46O	Surge	

climacus

	code	word	
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	
ci>	C46O	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	
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	
visu1sut1su1sut1	N39H	generavit	
vi-su1sut1su2	N39H	enim	
visut1sux1	N59N	filium	
clSsu1sut1	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
visu1suu1su2	N372O	erogatione	1.25x
vi-su1suu2	A174A	meus	
vi-su1suu1su1	A174A	Alleluia.	
vi-sut2	H74I	illuminare	
clS-su2	C46A	eius	
vi-suu1su2	H75I	sanctus	
clSsut2	E51R	suscipiant	2.0x
vi-sut3	H269D	dicentes	
vi-su1sut1 Cf.	vi-su1sut1su2 minus subpunctis		
vi-su2sut1	N296V	alleluia	
vi-su1sux1	E373B	Sanctum	2.133x
vi-sut4	H16A	servient	1.7x
vi-suu2	H23E	ecce	1.7x
vi-suu3	H35G	veniet	1.7x
visu2sux1	H48B	mater	1.7x

scandicus

	code	word	
sc	G11P	imperium	0.85x
sc1 Cf.	vipp4 minus first punctum		
sc-	C123C	terram	
scS	C154A	Alleluia	
scG	H179I	Iudas	
scG1	C52P	Posuisti	
scM1	C67D	Domine	

sc>	C26A	Alleluia	
Cf. pe>2			
vi-pp2	C26A	Domine	
vi-ppt3	C27E	veniet.	
scM2	C44E	Ecce	
vi>ppt3	E2R	non	2.166x
cl>ppt2	H73O	annuntiantes	
vi-!vi!vi	E155B	Benedicite	2.166x
vippt3	G140O	ae	0.85x
vi-pp4	C154A	rectos	
vi-!vi-!vi	H118G	erubescat	
vipp4	A127E	eum	
vi>ppt2	H75V	apertis	

porrectus flexus

pf	C27E	sacrificia	
pflsc2	C58D	intendentes	
pf1lsc2	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. po>			
pfMsut1	E34I	eum	2.166x

pes subbipunctis

pesu2	C81E	antiquis.	
vippt1su2lsc3	C61T	solus:	
pe-su2	H73S	adoraverunt	
pe-1su2	C64Q	habitat	
pe-1sut2	H104T	confitemur	
peSsu2	A17T	eius	
peSsut2	C27E	sanctos	
vippt1su2	C56B	benedicetur.	
toS2sut1	C139A	Alleluia	
vi-!ci	E272M	cognovisti	2.166x
pesu1suw1	G8E	plebem	
pe-su1sut1	N296V	alleluia	
pe-su2suy1	N296V	alleluia	
pe-1sut3	H179A	malum	
Cf. to>			
pesu1suu1	C27E	Deus	
pesu3	C27Q	regis	
vippt1su1sut1	C40V	omnes	
vippu1su2	C74B	Altissime.	
pesu1sut3	C60S	venti.	
pesu2suv1	C60C	Sana	
vippu1su2lsc3	C32B	caeli	
pe-1su1suu1	C61I	pascuae	
peSsu1sux1	G89D	filii	0.85x
pe-su3sut1	N270A	saecula.	
pe-1sut1sux1	H72V	orta	
peSsut3	C46O	Jerusalem	
pesut2	H77S	magi	
pe-1suw2	E255S	Domini	2.133x
peSsut1su2	E13P	Domine	2.133x
pesu1sux1	H25E	angelum	1.7x
pe-1su1suw1	H29E	deprecabuntur	1.7x
pesu1sut1 *Cf.*	pesu1sut3 minus 2 tractulis		

scandicus flexus

sf	C64Q	habitat	
sflsc3	C27E	Deus	
sf-	C39B	est	
sfS	C97D	Deus	
toppu1	C103C	Cantemus	
Cf. sfM			
Cf. sc>			
to>pp2	E324R	testamentum	2.0x

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	eeiieiue	2.166x

stropha

st	C80Q	commovebitur	
st-	C52P	Desiderium	
stS	E263V	est.	2.166x
st>	C49I	servum	

distropha

ds	C46O	super	
dslsx6	C45S	forma	
ds-	C81E	Domine	
ds>	C38A	Alleluia	

tristropha

ts	C80Q	Dominus	
tslsx6	C44D	mansuetudinem	
ts-	C150L	ibimus	
tsM	C62M	anima	
ts>	C62M	conculcantes	
tsM-	A26F	ego	

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	

bivirga

bv	C26D	Propterea	
bv-	C82B	populus	
bv>	H33I	montes	

trivirga

tv	C56D	pretioso	
tv-	C61I	eius.	

pressus

pr	C26A	Alleluia	
pi	C82R	Domine,	
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	
Cf. vs>			
Cf. or>			

virga strata

vs	C148A	generatio	
vslsc3	C39B	nomine	
vslst2	E195D	suis,	2.166x
vs-	C82B	Domini	
vs>	C64Q	pennis	
Cf. ta>			
vs->	A22V	Rama	

oriscus

or	H112S	candidior	
or>	C148V	salutari	

salicus

sa	C27E	super	
sa1	C148A	Alleluia.	
salsfr1	E3D	Deus	2.166x
sa-	C25U	tuas	

	Name	Code	Word	Scale
	sa-1	G30E	tribulationis	
	saG	C107A	Alleluia.	
	saM	H16V	venient	1.7x
	saM1	E10P	omnis	2.166x
	saM2	C27Q	regis	
	sa>	C27E	sanctos	
	sa->1	H77A	magi	
Cf.	pe>2			
	sa!clS1	C80Q	sicut	
	sa!clS-1	C27Q	tuam	
	sa!clS1lsc2	C46B	Deus	
	sa-lsfr1	C134B	nomen	
	sa1!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

pes quassus

	Name	Code	Word	Scale
	pq	C27E	sacrificia.	
	pqlsfr1	C150L	nostri	
	pq-	C148V	nostro	
	pq>	C84T	pupillo	
	pqS	C52T	maiestate	
	pqS>	H424M	potentiam	
	pq!cl>	G57F	firmamentum	0.85x
	pq!cl	E23T	Domini	2.166x

quilisma

	Name	Code	Word
	ql	C80Q	commovebitur
	qi	C103C	Hic
	ql-	C148A	generatio
	qi-	H28Q	veniet.
	ql>	C40V	gentium
	qi>	C28A	et

pes stratus

	Name	Code	Word	Scale
	pt	G1400	ae	0.85x

subpunctis

	Name		Word
	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
	sut1su2 *Cf.*		visut1su2
	sut3 *Cf.*		visut3
	suv1su2 *Cf.*		visuv1su2
	sut4		visut4
	su1suv1 *Cf.*		visu1suv1
	suu2su2 *Cf.*		vi-suu2su2
	sut2su2 *Cf.*		visut2su2
	su1sut3 *Cf.*		pesu1sut3
	su2suv1 *Cf.*		pesu2suv1
	sut3suw1 *Cf.*		visut3suw1
	su1sut1sux1 *Cf.*		visu1sut1sux1
	su1sut1su2 *Cf.*		visu1sut1su2
	su1sut1su1sut1 *Cf.*		visu1sut1su1sut1
	sut1sux1 *Cf.*		visut1sux1
	su4 *Cf.*		vi-su4
	su1sut2su1 *Cf.*		vi-su1sut2su1
	su1sut1suy1 *Cf.*		visu1sut1suy1
	sut3suy1 *Cf.*		visut3suy1
	sut2suy1 *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
	sut2suu1 *Cf.*		ql-ppt1sut2suu1
	suu3 *Cf.*		vi-suu3

prepunctis

	Name	Code	Word
	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

combined glyphs

	Name	Code	Word	Scale
	cl!pi	C82R	Domine	
	cl!pilsc1lst3	C89T	manum	
	cl!pilsc2	C149A	cantabo	
	cl!pr	G51S	ipsa	0.85x
	cl-!pi	E35E	illis	2.166x
	ql!cl	C148A	Domine	
	ql!cl!cl> *Cf.*		ql!cl!cl>ppt1 minus tractulus	
	ql!cl!pi *Cf.*		ql!cl!pippt1 minus tractulus	
	ql!pf-	G42D	mane	0.85x
	ql!pf	G35D	Domine	
	ql!cl-	C26A	Alleluia.	
	ql!clM *Cf.*		ql!clMppt1 minus tractulus	
	ql!cl-> *Cf.*		ql!cl->ppt1 minus tractulus	
	ql!cl>	H26L	salva	0.5x
	ql!po	C148V	nostro	
	ql!po-1	C148A	Alleluia.	
	ql!po>	H33I	terram	
	ql!vs	C148A	refugium	
	ql!vssu2 *Cf.*		ql!vsppt1su2 minus tractulus	
	ql!vssut2 *Cf.*		ql!vsppt1sut2 minus tractulus	
	qi!vs *Cf.*		qi!vssu2 minus subbipunctis	
	qi!vssu2 *Cf.*		qi!vsppt1su2 minus tractulus	
	ql-su2 *Cf.*		ql-ppt1su2 minus tractulus	
	ql-sut2	H73S	cedebat	
	ql-su1sux1 *Cf.*		ql-ppt1su1sux1 minus tractulus	
	ql-su1sut2 *Cf.*		ql-ppt1su1sut2 minus tractulus	
	ql-sut1sux1	H72H	complacui	
	ql-suu2 *Cf.*		ql-ppt1suu2 minus tractulus	
	ql-sut2suu1 *Cf.*		ql-ppt1sut2suu1 minus tractulus	
	qi-su2	H73S	cedebat	
	qi-su1sut2 *Cf.*		qi-ppt1su1sut2 minus tractulus	
	qi-su1sux1	H26G	certamine	1.7x
	qi!cl	C82B	spiritu	
	qi!cl-	C148A	factus	
	qi!cl>	H77S	Magi	
	qi!po	H87E	Deus	
	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-ppt1su1sut2	H269R	magnalia	
	ql!cl>ppt1	H730	aurum	
	ql!clppt1	C39B	Domini:	

Code	Ref	Word	Factor
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!poppt1	C59D	Domine.	
ql!po-1ppt1	C58A	homo.	
ql!po ppt1	H179L	pauperem	
ql!po *Cf.*	ql!po	minus tractulus	
ql-ppt1su2	H72V	Jerusalem	
ql-ppt1su1sux1	H73O	Reges	
ql-ppt1su1sut2	H75I	patris	
ql-ppt1suu2	H72H	Hic	
ql-ppt1sut2suu1	H16M	altissimi	1.7x
ql!vsppt1su2	H73O	Domino	
ql!vsppt1 *Cf.*	ql!vsppt1su2	minus subbipunctis	
ql!vsppt1sut2	H73S	gaudio	
qi!vsppt1su2	H74I	Domini	
to!ciG	C28T	gloriae.	
to!cl	C84T	pupillo	
to!cl!cl!cl	C64Q	sepavit,	
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	filiis	
to!clS	C43A	terram.	
to!cl!cl	C43A	Domini,	
to!po	C64Q	sagitta	
to!pr	G11V	Deo	0.85x
to!pi	C60C	tui.	
toSsu2	H72H	mihi	
pf!cl-	G51I	meus	
pf!clM- *Cf.*	pf!clM-ppt1	minus tractulus	
pf!pr	G9A	Alleluia	
cl!po> *Cf.*	cl!po>ppt1	minus tractulus	
cl!cl>1	N67G	mundi	
cl!clSsut2	E256C	psallite	2.166x
cl!clS *Cf.*	cl!clSsut2	minus 2 tractulis	
cl!po	C26A	nobis.	
cl!po-1	H119C	in	
tr-1su2	H73O	dona	
ci-pp2	H73S	magno	
toS2su2	H73S	eam	

significative letters

Code	Ref	Word	Description	Factor
lsam	C87E	abstraxisti	altius	
lsal	E20E	Sion,	altius mediocriter	2.166x
lsb	C39B	Domino	bene	
lsc	C27E	eius	celeriter	
lscw	C148V	nostro.	celeriter (wide form)	
lsco	C134B	nomen	coniunguntur	
lscm	C58A	oblivio	celeriter mediocriter	
lsd	E11C	Virgo	deprimatur	1.85x
lse	C84T	adiutor	equaliter	
lsew	H266D	si	equaliter (wide form)	
lseq	C64Q	viis	equaliter	
lsfid	E16B	Domino	fideliter	2.166x
lsfr	C58A	non	frendor	
lsg	C27Q	ovem	gutture	
lsi	C87E	Domine	iusum	
lsim	E336I	universa	iusum mediocriter	2.166x
lsiv	E92I	misericors	iusum valde	2.166x
lsk	C62M	confidit	klenge	
lsl	C38T	Tecum	levare	
lslb	C58A	non	levare bene	
lslc	E151A	ab	levare celeriter	2.166x
lslen	C59D	servitui.	leniter	
lslm	C38T	Tecum	levare mediocriter	
lslp	E161S	dicit	levare parvum	2.166x
lslt	E148L	Laudate	levare tenete	2.0x
lsm	C38T	principium	mediocriter	
lsmoll	E33V	fines	molliter	2.166x
lsp	C64Q	altissimi	parvum	
lspar	E104S	miserere	paratim	2.166x
lspfec	E2D	fructum	perfecte	2.166x
lspm	C40V	suam.	parvum mediocriter	
lss	C27E	sanctos	sursum	
lssb	C40V	iustitiam	sursum bene	
lssc	C84T	Tibi	sursum celeriter	
lssimil	E193D	ne	similiter	2.166x
lssimul	E42A	sumus.	simul	2.166x
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	2.166x
lsv	E1310	semper	valde	2.0x
lsvol	C58A	aeternum	volubiliter	
lsx	C87E	me:	expectare	