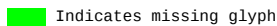
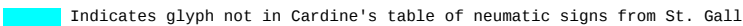



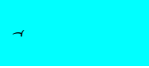













































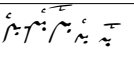
















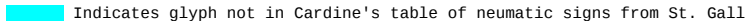


	nabc	normal		with adjunction								modification						melody			liquescentia					other glyphs
		us	alt	c	t	ct	epi- semus	epi- semus t	alt	alt2	shape	alt1	alt2	alt3	grouping	alt	alt2	alt1	alt2	alt3	aug	alt	alt2	dim	alt	
nabc		1	c	c1	t	ct	-	-t	-1	-2	s	s1	s2	s3	g	g1	g2	m1	m2	m3	<	<1	<2	>	>1	
virga	vi	/	˘		˘		˘	˘													˘					
tractulus	ta	˘	˘	˘	˘		˘														˘					
punctum	pu	.																			,	˘				
gravis	gr	˘	˘				˘																			
clivis	cl	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘				˘			˘	˘	˘	˘	˘	
pes	pe	˘					˘		˘		˘				˘			˘			˘	˘	˘	˘		
porrectus	po	˘	˘				˘		˘						˘			˘			˘		˘			
torculus	to	˘	˘	˘	˘	˘	˘		˘		˘	˘	˘	˘	˘			˘	˘		˘		˘		˘	
climacus	ci	˘	˘	˘	˘		˘				˘	˘	˘	˘	˘			˘			˘		˘			
scandicus	sc	˘	˘				˘		˘		˘				˘	˘		˘	˘		˘		˘		˘	
porrectus flexus	pf	˘	˘	˘	˘	˘	˘				˘				˘			˘			˘		˘			
pes sub-bipunctis	pesu 2	˘	˘	˘			˘	˘	˘		˘	˘			˘	˘		˘	˘		˘		˘		˘	
scandicus flexus	sf	˘	˘	˘			˘				˘				˘	˘		˘	˘		˘		˘		˘	
torculus resupinus	tr	˘	˘	˘	˘	˘	˘	˘			˘	˘	˘	˘	˘	˘	˘	˘			˘		˘		˘	
stroph	st	˘					˘				˘										˘					
distropha	ds	˘	˘				˘														˘					
tristroph	ts	˘	˘	˘			˘											˘			˘					
trigonus	tg	˘	˘								˘	˘	˘	˘				˘					˘			
bivirga	bv	˘					˘														˘					
trivirga	tv	˘					˘																			
pressus	pr	˘	˘	˘	˘	˘	˘	˘										˘	˘		˘		˘	˘	˘	
virga strata	vs	˘	˘	˘	˘	˘	˘														˘		˘			
oriscus	or	˘																			˘					
salicus	sa	˘	˘	˘	˘		˘	˘						˘				˘	˘	˘	˘	˘	˘	˘	˘	
pes quassus	pq	˘	˘				˘				˘										˘	˘	˘			
quilisma	qi	˘	˘				˘	˘													˘	˘				
pes stratus	pt	˘																			˘	˘				

 Indicates missing glyph
  Indicates glyph not in Cardine's table of neumatic signs from St. Gall

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	/	  	/				p	
tractulus	-	- - -					e	
punctum	.						o/;	
gravis	˘		˘					
clivis	/	  	/ /	/ /		/	o b	p
pes	✓		✓ ✓	✓	/	/	p p e	e
porrectus	∞		 ∞		∞		∞	∞
torculus	s	  	s s	s s  s		 s	s	p
climacus	/: /:	 	/:	/: /: /:	/: /:	/:	/:	o
scandicus	/: 		/: 	/:	/: ✓	 ✓	:p	e
porrectus flexus	∞	  	∞		∞		∞	∞
pes subbipunctis	/:	 	/: ✓ 	 	/: s	 		o
scandicus flexus	/:		/:	/:	/: 	 		:p
torculus resupinus	s	 	s s	  	∞ s s s		∞	s
apostropha	,		,				,	
distropha				,	
tristropha			,	,	
trigon	/: /:			  		/:		,
bivirga & trivirga	// ///		// ///				//	
pressus	∞	   	∞			∞ 	 	∞ s
virga strata	∞	 	∞				∞	e
oriscus	s						s	
salicus	/: /:	 	/: /:		s	  	∞	e
pes quassus	✓	✓	✓				∞ 	
quilisma	∞		∞				∞	
pes stratus	∞							

 Indicates missing glyph  Indicates glyph not in Cardine's table of neumatic signs from St. Gall

Cantatorium codex 359

C1 = <http://www.e-codices.unifr.ch/en/csg/0359/1/x-large>

C25U Universi GT16
C26A Alleluia Ostende GT16
C26D Dilexisti iustitiam GT499
C27E Ex Sion GT18
C27Q Qui sedes GT22
C28A Alleluia. Excita Domine GT23
C32B Benedictus es in firmamento GT664
C38T Tecum principium GT42
C38A Alleluia Dominus dixit GT43
C39B Benedictus qui GT45
C40A Alleluia Dies sanctificatus GT49
C40V Viderunt omnes GT48
C44D Diffusa est gratia GT408
C45S Speciosus forma GT54
C460 Omnes de Saba GT57
C46B Benedictus Dominus GT257
C49I Inveni David GT445
C52T Timebunt gentes GT265
C52P Posuisti Domine GT477
C54A Audi filia GT417
C56D Desiderium animae GT432
C58A Adiutor GT69
C59D De profundis GT673
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
C780 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
C89T Tenuisti manum
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
C154A Alleluia Gaudete iusti GT430

Einsiedeln codex 121

E1 = <http://www.e-codices.unifr.ch/en/csg/0121/1/x-large>
E2D Dominus dabit GT17
E3D Deus tu convertens GT20
E10P Prope est Dominus GT35
E11C Confortamini OT9
E16B Benedictus es
E20E Exsulta satis GT28
E33V Viderunt omnes GT50
E42A Anima nostra GT466
E69P Posuisti Domine GT477
E82D De profundis GT673
E92I Immutemur GT65
E104S Sicut oculi GT77
E125P Precatus est Moyses GT317
E1310 Oculi mei semper GT96
E147L Laetare Ierusalem GT108
E148L Laudate Dominum GT110
E161S Sitientes venite GT114
E173E Eripe me GT129
E195D Dominus Iesus GT165
E205R Resurrexi GT196
E248V Viri Galilaei GT235
E320I Inclina aurem GT300
E336I In voluntate tua GT346
E339S Si iniquitates GT350

Hartker codex 390/391

H1 = <http://www.e-codices.unifr.ch/en/csg/0390/1/x-large>
H195 = <http://www.e-codices.unifr.ch/en/csg/0391/1/x-large>
H28Q Qui venturus est NR134
H33I Iuravi dicit Dominus NR151
H36A Adnuntiatum est
H50Q Quem vidistis pastores AM240
H77S Stella ista AM291
H77A Ab Oriente AM297
H87E Exaudi Deus
H103M Magnus Dominus NR516
H112S Stans a dextris AM798
H179I Iudas mercator NR382
H266D Domino si in tempore
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/csg/0339/33/x-large>
G11P Puer natus est GT47
G25P Posuisti Domine GT477
G30E Exsurge quare obdormis GT91
G44P Precatus est Moyses GT317

Codex 484

SG484 = <http://www.e-codices.unifr.ch/en/csg/0484/281/x-large>
SG4840 p281 Occidentana

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

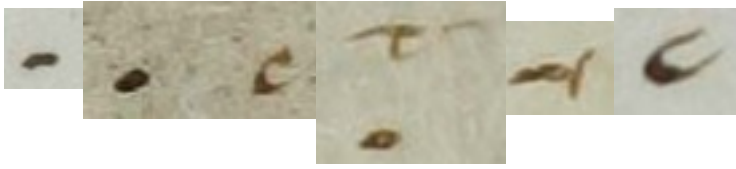


∕ ˘ ∕ ρ ʀ



- vi1 C780 tu
- vi2 C82R testamentum
- vi4 C80Q montes
- vi5 C27E eius
- vi6 H50Q Quem

tractulus



∕ ˘ ∕ ρ ʀ



- ta1 C26A Domine
- ta2 C54A in laetitia
- ta3 C56D Desiderium
- ta4 C81E antiquis.
- ta5 C25U et

punctum



pu1 C137A Audi
pu2 = st1
pu3 = ci12

gravis



i l l c

i l l c

gr1 H271L Loquebantur
gr2 H270S Spiritus
gr3 H270S replevit

pes

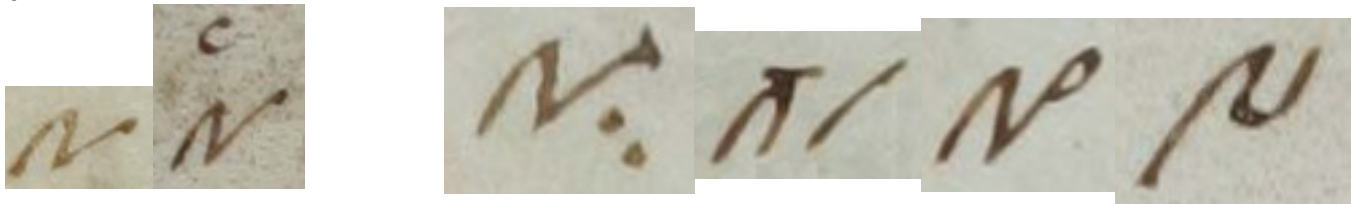


✓ ✓ ✓ ✓ / p p - e



- pe1 C80Q Domine
- pe2 C80Q aeternum
- pe3 C64Q Scapulis
- pe4 C780 in
- pe5 B9vA erepta [0.5x]
- pe6 = pe5
- pe7 C100C germine
- pe8 C27E eius
- pe9 C71L misericordia
- pe10 = ta5

porrectus

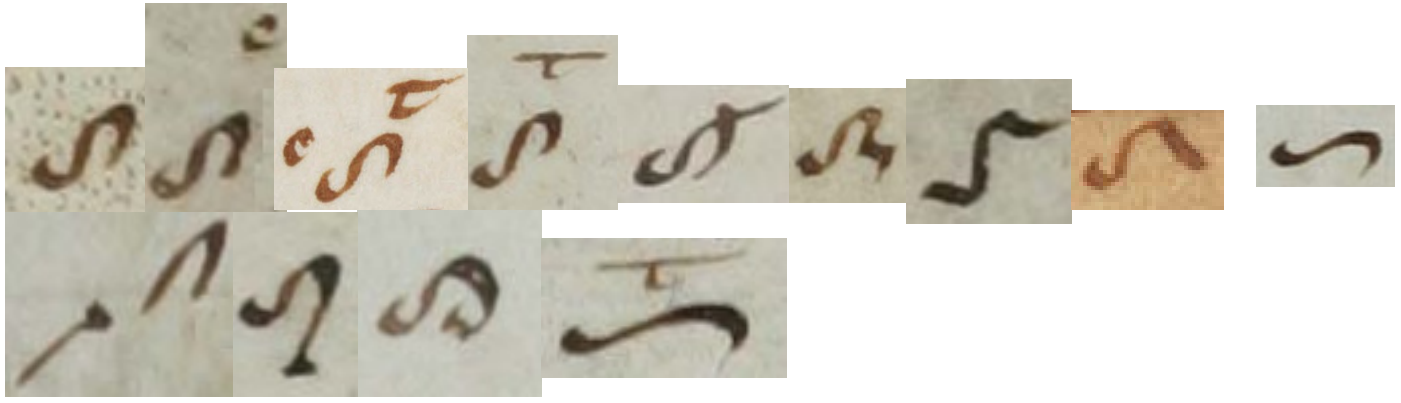


^c n n n n n n



- po1 C139B super
- po2 C82R iudica
- po4 C26A tuum
- po5 C40V salutare
- po6 C80Q commovebitur
- po7 C58A aeternum

torculus



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ت ت

- to1 C780 Domine
- to2 C39B nomine
- to3 E125P Domine, [2.166x]
- to4 C74B misericordiam
- to5 G44P animae
- to6 C139A nostrorum
- to7 C38A hodie
- to8 E205R Resurrexi, [0.5x]
- to10 C104V circumfodit
- to12 C49I servum
- to13 C39B mirabile
- to14 C26A misericordiam
- to16 C59D tuae

climacus

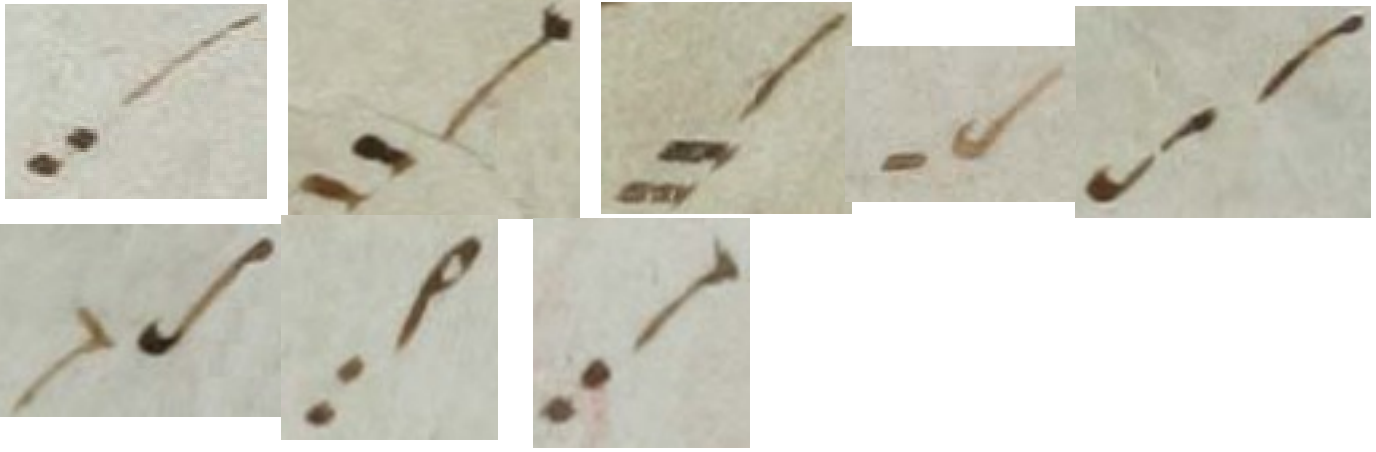


tu. ges. tuo. nos. Domine. Deus. eius. lapidem. magna. Alleluia. orta. domum

^c
tu. ges. tuo. nos. Domine. Deus. eius. lapidem. magna. Alleluia. orta. domum

- ci1 C26A tuum
- ci2 G73P gentes
- ci3 C74B tuo
- ci5 C81E nos
- ci6 C81E Domine
- ci7 C139A Deus
- ci8 C56D eius
- ci9 C64Q lapidem
- ci10 C40A magna
- ci11 C154A Alleluia
- ci12 C460 orta
- ci13 C79L domum

scandicus

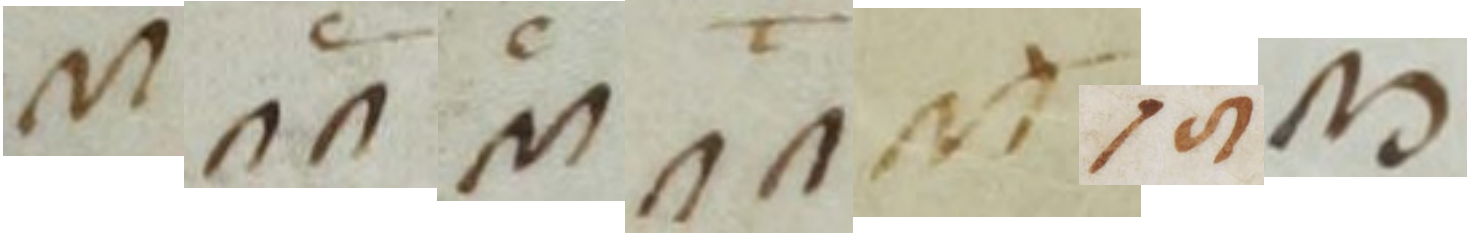


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./ / / / / / / / / / / /

- sc1 G11P imperium [0.85x]
- sc3 C123C terram
- sc5 C154A Alleluia
- sc6 H179I Iudas
- sc7 C52P Posuisti
- sc9 C67D Domine
- sc10 C26A Alleluia
- sc11 = pe9
- sc12 C26A Domine

porrectus flexus



M Ḿ Ṁ Ṃ Ṇ Ṧ Ṣ Ṭ

M Ḿ Ṁ Ṃ Ṇ Ṧ Ṣ Ṭ

- pf1 C27E sacrificia
- pf2 C58D intendentes
- pf3 C61I Ipse
- pf4 C122I fines
- pf5 C81E antiquis.
- pf7 E248V alleluia, [2.166x]
- pf9 C95D manducare
- pf10 = po6

pes subbipunctis



ſ ṡ ṣ ṣ̄ ṣ̄̄ ṣ̄̄̄ ṣ̄̄̄̄ ṣ̄̄̄̄̄

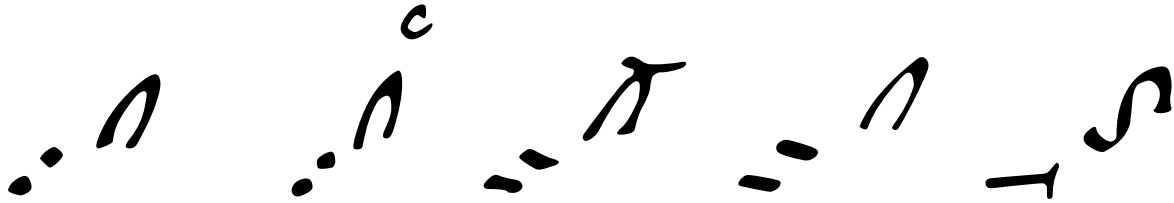
ſ ṡ ṣ ṣ̄ ṣ̄̄ ṣ̄̄̄ ṣ̄̄̄̄ ṣ̄̄̄̄̄

- pesu1 C81E antiquis.
- pesu2 C32B caeli
- pesu3 E320I eruas [2.166x]
- pesu4 C64Q habitat
- pesu8 C74B Altissime.
- pesu9 C139A Alleluia
- pesu13 C103C bella

scandicus flexus

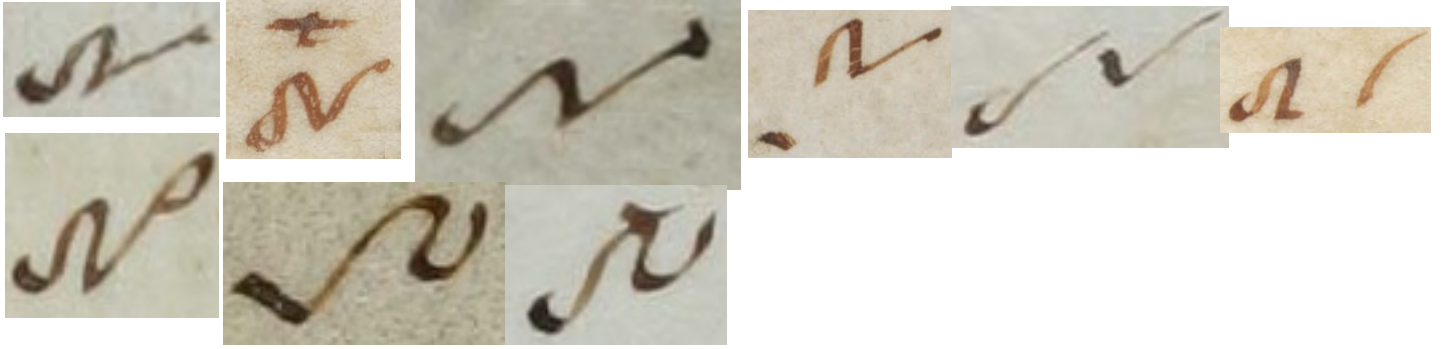


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sf1 C64Q habitat
sf2 C27E Deus
sf3 C39B est
sf4 C97D Deus
sf5 C103C Cantemus

torculus resuspinus



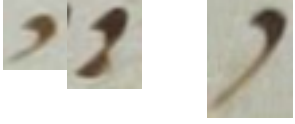
torculus resuspinus

torculus resuspinus

torculus resuspinus

- tr1 C25U edoce
- tr3 E69P eius [2.0x]
- tr5 C38T meo
- tr9 E336I fecisti [2.166x]
- tr10 G25P ei
- tr11 E147L Laetare [2.166x]
- tr13 C82V nonconfudentur
- tr15 C107A Alleluia.
- tr16 C27Q et

stropha

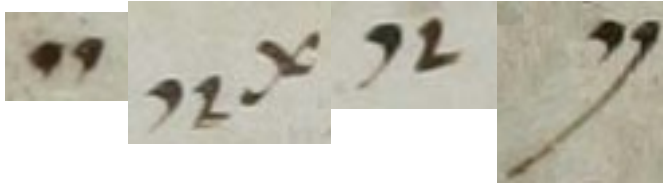


” 1 ”

” 1 ”

st1 C80Q commovebitur
st2 C52P Desiderium
st4 C49I servum

distropha



“ ”

“ ”

ds1 C39B mirabile
ds2 C45S forma
ds3 C81E Domine
ds4 C38A Alleluia

bivirga

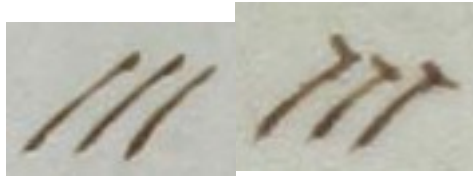


|| |||



bv1 C26D Propterea
bv2 C82B populus
bv3 H33I montes

trivirga

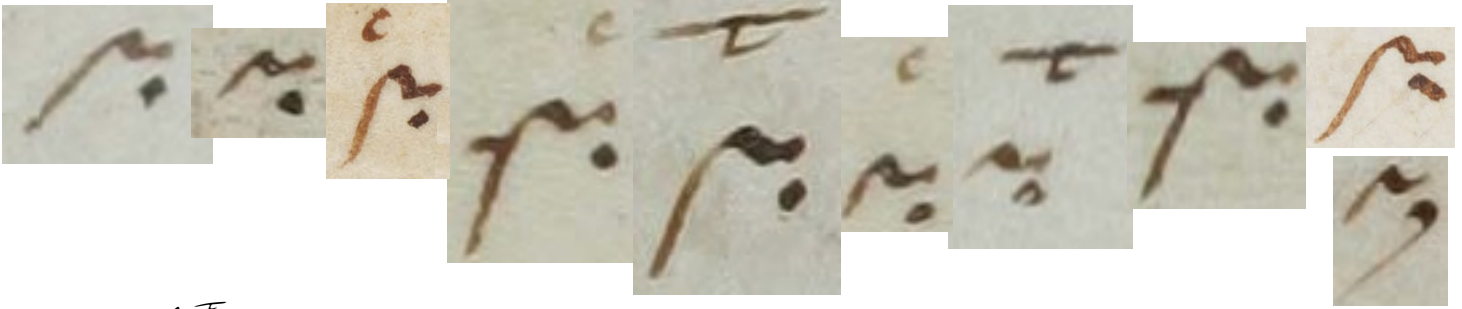


||| |||



tv1 C56D pretioso
tv2 C61I eius.

pressus



ٓ ٓ ٓ ٓ ٓ ٓ ٓ ٓ ٓ ٓ

ٓ ٓ ٓ ٓ ٓ ٓ ٓ ٓ ٓ ٓ

- pr1 C26A Alleluia
- pr2 C82R Domine,
- pr3 E339S Si [2.166x]
- pr4 C122I Dei
- pr5 C145L tuo
- pr6 C122I Dei
- pr7 C26A Alleluia
- pr8 C59D Si
- pr9 E173E insurgentibus [2.166x]
- pr12 H103M Magnus
- pr13 = vs5
- pr14 = or2

virga strata



ٓ ٓ ٓ ٓ ٓ

ٓ ٓ ٓ ٓ ٓ

- vs1 C148A generatio
- vs2 C39B nomine
- vs3 E195D suis, [2.166x]
- vs4 C82B Domini
- vs5 C64Q pennis

oriscus



s s

s s

or1 H112S candidior
or2 C148V salutari

salicus



Handwritten text in a cursive script, likely a list of characters or words, corresponding to the images above.

Handwritten text in a cursive script, likely a list of characters or words, corresponding to the images above.

Handwritten text in a cursive script, likely a list of characters or words, corresponding to the images above.

- sa1 C27E super
- sa2 C148A Alleluia.
- sa3 C134B nomen
- sa5 C25U tuas
- sa6 G30E tribulationis
- sa7 C107A Alleluia.
- sa9 E10P omnis [2.166x]
- sa10 C27Q regis
- sa11 C27E sanctos
- sa12 H77A magi
- sa13 = pe9
- sa14 C80Q sicut
- sa15 C27Q tuam
- sa16 C46B Deus

pes quassus



Handwritten examples of the 'pes quassus' script characters.

Large, clear handwritten examples of the 'pes quassus' script characters.

- pq1 C27E sacrificia.
- pq2 C150L nostri
- pq3 C148V nostro
- pq4 C84T pupilo
- pq5 C52T maiestate
- pq6 H424M potentiam

quilisma



Handwritten examples of the 'quilisma' script characters.

Large, clear handwritten examples of the 'quilisma' script characters.

- qi1 C80Q commovebitur
- qi2 C103C Hic
- qi3 C148A generatio
- qi4 H28Q veniet.
- qi5 C40V gentium
- qi6 C28A et

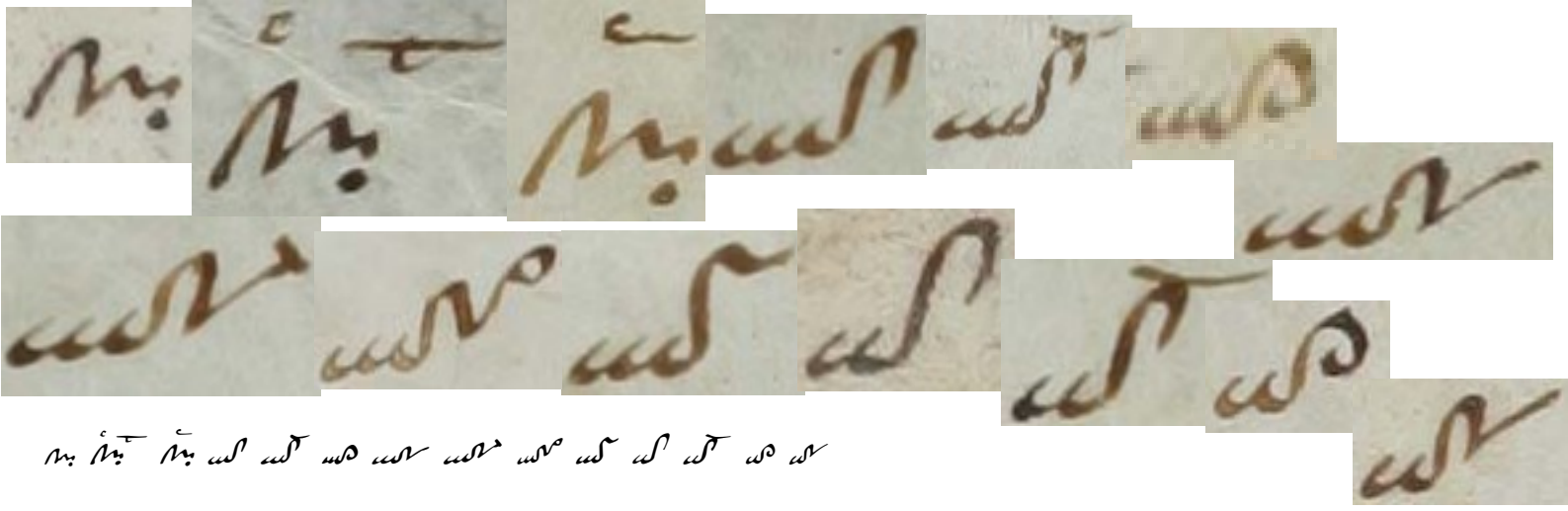
pes stratus



pt1 SG4840

[2.166x]

combined glyphs



Handwritten cursive text in brown ink, showing a sequence of characters and flourishes.

Handwritten cursive text in black ink, showing a sequence of characters and flourishes.

Handwritten cursive text in black ink, showing a sequence of characters and flourishes.

- | | |
|-----------------------|--|
| clpr1 C82R Domine | clivis + pressus minor |
| clpr2 C89T manum | clivis + pressus minor with celeriter tenete |
| clpr3 C149A cantabo | clivis + pressus minor with celeriter |
| qicl1 C148A Domine | quilisma + clivis |
| qicl5 C26A Alleluia | quilisma + clivis with episema |
| qici13 H26L salva | quilisma + climacus diminutus [0.5x] |
| qipo1 C148V nostro | quilisma + porrectus |
| qipo4 C148A Alleluia. | quilisma + porrectus with episema |
| qipo6 H33I terram | quilisma + porrectus liquescens |
| qivs1 C148A refugium | quilisma + virga strata |
| qi2cl1 C82B spiritu | quilisma (dual) + clivis with episema |
| qi2cl5 C148A factus | quilisma (dual) + clivis with episema |
| qi2ci13 H77S Magi | quilisma (dual) + climacus diminutus |
| qi2po1 H87E Deus | quilisma (dual) + porrectus |

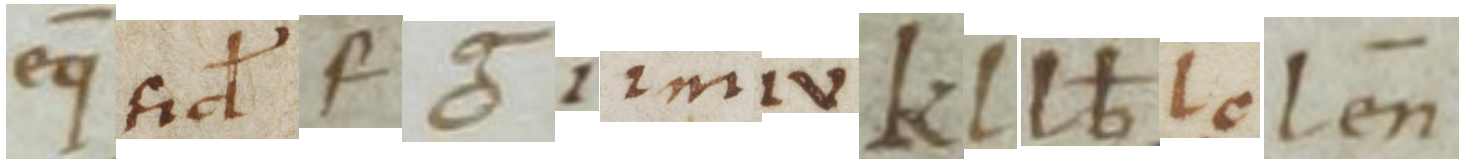
lettera significativa



a am t c c cm co d e e

a am t c c cm co d e e

- ls:al C87E abstraxisti altius
- ls:am E20E Sion, altius mediocriter [2.166x]
- ls:b C39B Domino bene
- ls:c C27E eius celeriter
- ls:c2 C148V nostro. celeriter (wide form)
- ls:cm C58A oblivio celeriter mediocriter
- ls:co C134B nomen coniunguntur
- ls:d E11C Virgo deprimatur [1.85x]
- ls:e C84T adiutor equaliter
- ls:e2 H266D si equaliter (wide form)



eq fid f g i im iv k l lt lc len

eq fid f g i im iv k l lt lc len

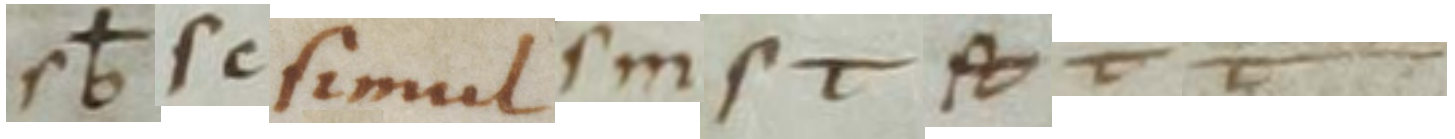
- ls:eq C64Q viis equaliter
- ls:fid E16B Domino fideliter [2.166x]
- ls:fr C58A non frendor
- ls:g C27Q ovem gutture
- ls:i C87E Domine iusum
- ls:im E336I universa iusum mediocriter [2.166x]
- ls:iv E92I misericors iusum valde [2.166x]
- ls:k C62M confidit klenge
- ls:l C38T Tecum levare
- ls:lb C58A non levare bene
- ls:lc E151A ab levare celeriter [2.166x]
- ls:len C59D servitui. leniter



lm lp lt m mott p pari pfec pm s

lm lp lt m mott p pari pfec pm s

ls:lm C38T Tecum	levare mediocriter
ls:lp E161S dicit	levare parvum [2.166x]
ls:lt E148L Laudate	levare tenete [2.0x]
ls:m C38T principium	mediocriter
ls:moll E33V fines	molliter [2.166x]
ls:p C64Q altissimi	parvum
ls:par E104S miserere	paratim [2.166x]
ls:pfec E2D fructum	perfecte [2.166x]
ls:pm C40V suam.	parvum mediocriter
ls:s C27E sanctos	sursum



rb sc simul sm st s t t

rb sc simul sm st s t t

ls:sb C40V iustitiam	sursum bene
ls:sc C84T Tibi	sursum celeriter
ls:simul E42A sumus.	simul [2.166x]
ls:sm C59D Si	sursum mediocriter
ls:st C87E Domine	sursum tenere
ls:sta C27E Congregate	statim
ls:t C39B Domino	tenete
ls:t2 C58A non	tenete (wide form)



tb tm v uot x

tb tm v uot x

ls:tb	C39B	Domino	tenete bene	
ls:tm	E3D	tu	tenete mediocriter	[2.166x]
ls:v	E1310	semper	valde	[2.0x]
ls:vot	C58A	aeternum	volubiliter	
ls:x	C87E	me:	expectare	