

Transcription
Iberian-Caucasian Languages
 (phonological system)

Vocals/Vowels

Lat.	Characteristics of Phonemes	Geo.
a	back low unrounded vowel (short or irrelevant as to the length distinction)	ა
á	same, stressed	ა́
ā	same, long	ā
ǎ	same, long and palatalized	ǎ
ä	same, palatalized	ä
â	same, labialized	â
ǻ	same, short and covert	ǻ
ã	same, short and covert	ã
ə	same, short and pharyngealized	ə̤
ë	same, pharyngealized and palatalized	ë̤
a^ᵛ	same, nasalized	ა ^ᵛ
ā^ᵛ	same, long and nasalized	ā ^ᵛ
ǎ^ᵛ	same, long nasalized and palatalized	ǎ ^ᵛ
ä^ᵛ	same, nasalized and palatalized	ä ^ᵛ
ǻ^ᵛ	same, short and nasalized	ǻ ^ᵛ
e	front mid-low unrounded vowel (short or irrelevant as to the length distinction)	ე

é	same, stressed	Ⴑ
ē	same, long	Ⴒ
ê	same, labialized	Ⴓ
ě	same, short and overt	Ⴔ
ê̄	same, short and covert	Ⴕ
ɛ̠	same, pharyngealized	Ⴖ
e ^Ⴗ	same, nasalized	Ⴗ ^Ⴗ
ē ^Ⴗ	same, long and nasalized	Ⴘ ^Ⴗ
ě ^Ⴗ	same, short and nasalized	Ⴙ ^Ⴗ
ⴁ	Old Georgian grapheme E	ⴁ
i	front high unrounded vowel (short or irrelevant as to the length distinction)	Ⴚ
í	same, stressed	Ⴛ
ī	same, long	Ⴜ
î	same, labialized	Ⴝ
ĩ	same, short and overt	Ⴞ
î̄	same, short and covert	Ⴟ
Ⴟ̠	same, pharyngealized	Ⴟ
ĩ ^Ⴟ	same, nasalized	Ⴟ ^Ⴟ
ī ^Ⴟ	same, nasalized and long	Ⴟ ^Ⴟ
ĩ ^Ⴟ	same, nasalized and short	Ⴟ ^Ⴟ
o	back mid-low rounded vowel (short or irrelevant as to the length distinction)	Ⴟ
ó	same, stressed	Ⴟ
Ⴟ̠	same, nonlabialized	Ⴟ

ō	same, long	31
ö	same, long and palatalized	31#
ö	same, palatalized	31:
ō	same, short and overt	31'
ô	same, short and covert	31'
o̠	same, pharyngealized	31
o ^ŋ	same, nasalized	31 ^ŋ
ō ^ŋ	same, nasalized and long	31 ^ŋ
ö ^ŋ	same, long nasalized and palatalized	31 ^ŋ #
ö ^ŋ	same, nasalized and palatalized	31 ^ŋ :
ō ^ŋ	same, short nasalized and palatalized	31 ^ŋ '
u	back high rounded vowel (short or irrelevant as to the length distinction)	32
ú	same, stressed	32
ū	same, long	32
ü	front high rounded vowel	32:
ü	same, long and palatalized	32:#
ü	same, short and overt	32'
û	same, short and covert	32'
u̠	same, pharyngealized	32
u ^ŋ	same, nasalized	32 ^ŋ
ü ^ŋ	same, nasalized and palatalized	32 ^ŋ :
ū ^ŋ	same, long nasalized	32 ^ŋ
ü ^ŋ	same, long nasalized and palatalized	32 ^ŋ :#

ǻ̃	same, short nasalized	ᠯᠢᠮ
ə	mid mid-low unrounded vowel (short or irrelevant as to the length distinction)	ᠯ
ɤ	same, stressed	ᠯᠠ
ɛ̃	same, long	ᠯᠠᠢ
ɔ̃	same, labialized	ᠯᠠᠮ
ɔ	same, short and overt	ᠯᠠᠭ
ə̃	same, short and covert	ᠯᠠᠭᠠ
ɔ̣	same, pharyngealized	ᠯᠠᠭᠡ
ɔ̃ᠨ	same, nasalized	ᠯᠠᠭᠡᠨ

Consonants

Sonants		
j	palatal resonant (semivowel or glide)	ᠵ
w	labial resonant (semivowel or glide)	ᠮ
l̥	syllabic lateral sonant	ᠯᠢ
m̥	syllabic bilabial sonant	ᠮᠢ
n̥	syllabic nasal sonant	ᠨᠢ
r̥	syllabic vibrant sonant	ᠷᠢ
Sonorants		
l	lateral resonant	ᠯ
lj	same, palatalized	ᠯᠵ

m	labial nasal resonant	མ
m^j	same, palatalized	མཾ
ɱ	same, pharyngealized	མཿ
n	dental nasal resonant	འ
n^j	same, palatalized	འཾ
r	dental vibrant	ར
r^j	same, palatalized	རཾ
ɽ	same, voiceless	འལ
r^w	same, labialized	རྩྭ
Laterals		
ɮ	voiced lateral affricate	འལྟ
ɮ̥	voiceless (aspirated) lateral affricate	འལྟཱ
ɮ:	tense lateral affricate	འལྟཱ་
ɮ̥̚	glottalized lateral affricate	འལྟཱ̚
ɮ̥̚:	tense glottalized lateral affricate	འལྟཱ̚་
ɮ̥̥̚	voiced lateral fricative	འལྟཱ̥
ɮ̥̥̥̚	voiceless lateral fricative	འལྟཱཱ̥
ɮ̥̥̥̚:	tense voiceless lateral fricative	འལྟཱཱ̥་
ɮ̥̥̥̚̚	voiceless glottalized lateral fricative	འལྟཱཱ̥̚
Bilabials		
b	voiced bilabial stop	པ

b^j	same, palatalized	ပီ
b^v	same, dentolabialized	ပီ
b^w	same, labialized	ပီၵ်
ḃ	same, pharyngealized	ပီ
p	voiceless (aspirated) bilabial stop	ပ
p^j	same, palatalized	ပီ
p^v	same, dentolabialized	ပီ
p^w	same, labialized	ပီၵ်
ḗ	same, pharyngealized	ပီ
p:	same, tense	ပံ
p^v:	same, tense and dentolabialized	ပံ
p^w:	same, tense and labialized	ပံၵ်
pʰ	voiceless (not aspirated) bilabial stop - prerruptive	ပ
p^vʰ	same, dentolabialized	ပံ
p^wʰ	same, labialized	ပံၵ်
ḗ	voiceless glottalized bilabial stop	ပဲ
ḗ^j	same, palatalized	ပီ
ḗ^{jv}	same, palatalized and dentolabialized	ပီ
ḗ^{jw}	same, palatalized and labialized	ပီၵ်
ḗ^v	same, dentolabialized	ပီ
ḗ^w	same, labialized	ပီၵ်
ḗ	same, pharyngealized	ပီ
v	voiced dentolabial fricative	ပ

ყ	same, pharyngealized	ჳ
ჯ	Old Georgian grapheme ჯ	ჯ
ფ	voiceless dentolabial fricative	ჴ
ფ̥	same, glottalized	ჴ̥
ფᵛ	same, dentolabialized	ჴᵛ
ფᵂ	same, labialized	ჴᵂ
ფ̄	same, pharyngealized	ჴ̄

	Dentals	
დ	voiced dental stop	დ
დᵛ	same, dentolabialized	დᵛ
დᵂ	same, labialized	დᵂ
დʲ	same, palatalized	დʲ
ღ	voiced interdental fricative	ღ
ტ	voiceless (aspirated) dental stop	ტ
ტᵛ	same, dentolabialized	ტᵛ
ტᵂ	same, labialized	ტᵂ
ტʲ	same, palatalized	ტʲ
ტ:	tense (unaspirated) dental stop	ტᵐ
ტᵛ:	same, dentolabialized	ტᵐᵛ
ტᵂ:	same, labialized	ტᵐᵂ
ტᵎ	voiceless (not aspirated) dental stop - prerruptive	ტᵎ
ტᵎᵛ	same, dentolabialized	ტᵎᵛ

t ^w	same, labialized	ᠲᠤᠰᠢᠬᠤ
t̚	glottalized dental stop	ᠲᠤᠰᠢ
t ^v	same, dentolabialized	ᠲᠤᠰᠢᠨ
t ^w	same, labialized	ᠲᠤᠰᠢᠬᠤ
tʲ	same, palatalized	ᠲᠤᠰᠢᠵᠢ
tʲ ^v	same, palatalized and dentolabialized	ᠲᠤᠰᠢᠵᠢᠨ
tʲ ^w	same, palatalized and labialized	ᠲᠤᠰᠢᠵᠢᠬᠤ
tː	tense glottalized dental stop	ᠲᠤᠰᠢᠰ
tː ^v	same, dentolabialized	ᠲᠤᠰᠢᠰᠢᠨ
tː ^w	same, labialized	ᠲᠤᠰᠢᠰᠢᠬᠤ

	Pre-alveolars	
ʒ	voiced pre-alveolar hissing affricate	ᠵᠢ
ʒʲ	same, palatalized	ᠵᠢᠵᠢ
ʒ ^v	same, dentolabialized	ᠵᠢᠨ
ʒ ^w	same, labialized	ᠵᠢᠬᠤ
ʒʲ ^v	same, palatalized and dentolabialized	ᠵᠢᠵᠢᠨ
ʒʲ ^w	same, palatalized and labialized	ᠵᠢᠵᠢᠬᠤ
ʒᵝ	same, velarized	ᠵᠢᠰ
ʒᵝ ^v	same, dentolabialized and velarized	ᠵᠢᠰᠢᠨ
ʒᵝ ^w	same, labialized and velarized	ᠵᠢᠰᠢᠬᠤ

c	voiceless pre-alveolar (aspirated) hissing affricate	ᄀ
c:	same, tense	ᄁ
cʲ	same, palatalized	ᄂ
c^v	same, dentolabialized	ᄃ
c^w	same, labialized	ᄄ
cʲ^v	same, palatalized and dentolabialized	ᄅ
cʲ^w	same, palatalized and labialized	ᄆ
c^v:	same tense and dentolabialized	ᄇ
c^w:	same tense and labialized	ᄈ
c^ɸ	same, velarized	ᄉ
c^{ɸv}	same, velarized and dentolabialized	ᄊ
c^{ɸw}	same, velarized and labialized	ᄋ
c̥	voiceless pre-alveolar (not aspirated) hissing affricate - preruptive	ᄌ
c̥^v	same, dentolabialized	ᄍ
c̥^w	same, labialized	ᄎ
c̥^ɸ	same, velarized	ᄏ
ç	voiceless pre-alveolar glottalized hissing affricate	ᄐ
çʲ	same, palatalized	ᄑ
ç^v	same, dentolabialized	ᄒ
ç^w	same, labialized	ᄓ
çʲ^v	same, palatalized and dentolabialized	ᄔ
çʲ^w	same, palatalized and labialized	ᄕ

ç^ɸ	same, velarized	ᄒᆞ
ç^{ɸv}	same, velarized and dentolabialized	ᄒᆞᆫ
ç^{ɸw}	same, velarized and labialized	ᄒᆞᆫᄒ
ç:	same, tense	ᄒᆞᆫ
ç^v:	same, tense and dentolabialized	ᄒᆞᆫᆫ
ç^w:	same, tense and labialized	ᄒᆞᆫᄒᆫ
z	pre-alveolar voiced hissing fricative	ᄒᆞ
zj	same, palatalized	ᄒᆞᆫ
z^v	same, dentolabialized	ᄒᆞᆫ
z^w	same, labialized	ᄒᆞᆫᄒ
zj^v	same, palatalized and dentolabialized	ᄒᆞᆫᆫ
zj^w	same, palatalized and labialized	ᄒᆞᆫᄒᆫ
z^ɸ	same, velarized	ᄒᆞᆫ
z^{ɸv}	same, velarized and dentolabialized	ᄒᆞᆫᆫ
z^{ɸw}	same, velarized and labialized	ᄒᆞᆫᄒᆫ
s	pre-alveolar voiceless hissing fricative	ᄒᆞ
s^v	same, dentolabialized	ᄒᆞᆫ
s^w	same, labialized	ᄒᆞᆫᄒ
sj^v	same, palatalized and dentolabialized	ᄒᆞᆫᆫ
sj^w	same, palatalized and dentolabialized	ᄒᆞᆫᄒᆫ
s^ɸ	same, velarized	ᄒᆞᆫ
s^{ɸv}	same, velarized and dentolabialized	ᄒᆞᆫᆫ

s^w	same, velarized and labialized	ᵛᵛ
sj	same, palatalized	ᵛ
s:	same, tense	ᵛᵛ
s^v:	same, tense and dentolabialized	ᵛᵛ
s^w:	same, tense and dentolabialized	ᵛᵛᵛ
ʃ	pre-alveolar glottalized hissing fricative	ᵛ
ʃ:	same, tense	ᵛᵛ
ʃ^v	same, dentolabialized	ᵛᵛ
ʃ^w	same, labialized	ᵛᵛᵛ
Mid-alveolars		
ʒ	voiced mid-alveolar hissing-hushing (= palatalized) affricate	ᵛ
ʒ^v	same, dentolabialized	ᵛᵛ
ʒ^w	same, labialized	ᵛᵛᵛ
ç	voiceless mid-alveolar hissing-hushing (= palatalized) affricate	ᵛ
ç^v	same, dentolabialized	ᵛᵛ
ç^w	same, labialized	ᵛᵛᵛ
ç̥	glottalized mid-alveolar hissing-hushing palatalized labialized hissing affricate	ᵛ
ç̥^v	same, dentolabialized	ᵛᵛ
ç̥^w	same, labialized	ᵛᵛᵛ
ʒ̥	voiced mid-alveolar hissing-hushing (= palatalized) fricative	ᵛ
ʒ̥^v	same, dentolabialized	ᵛᵛ

ʒ ^w	same, labialized	ʒ ^w
ʃ	voiceless mid-alveolar hissing-hushing (= palatalized) fricative	ʃ
ʃ ^v	same, dentolabialized	ʃ ^v
ʃ ^w	same, labialized	ʃ ^w
ʂ	glottalized mid-alveolar hissing-hushing fricative	ʂ
ʂ ^v	same, dentolabialized	ʂ ^v
ʂ ^w	same, labialized	ʂ ^w

Post-alveolars

ʒ	voiced post-alveolar stop hushing affricate	ʒ
ʒ ^v	same, dentolabialized	ʒ ^v
ʒ ^w	same, labialized	ʒ ^w
ʒ ^ʰ	same, lenis (weak)	ʒ ^ʰ
ʒ ^{vʰ}	same, lenis (weak) and dentolabialized	ʒ ^{vʰ}
ʒ ^{wʰ}	same, lenis (weak) and labialized	ʒ ^{wʰ}
ʒʲ	same, palatalized	ʒʲ
ʒʲ ^v	same, palatalized and dentolabialized	ʒʲ ^v
ʒʲ ^w	same, palatalized and labialized	ʒʲ ^w
ʒ ^ɣ	same, velarized	ʒ ^ɣ
ʒ ^{vɣ}	same, velarized and dentolabialized	ʒ ^{vɣ}
ʒ ^{wɣ}	same, velarized and labialized	ʒ ^{wɣ}
ʒ̥	voiceless post-alveolar (aspirated) hushing affricate	ʒ̥

č ^v :	same, tense and dentolabialized	ჩ ^ᎎ
č ^w :	same, tense and labialized	ჩ ^{ᎎᎎ}
č ^ʰ	post-alveolar glottalized hushing lenis (weak) affricate	ჩ ^{ᎎʰ}
č ^v	same, dentolabialized	ჩ ^{ᎎᎎᎎ}
č ^w	same, labialized	ჩ ^{ᎎᎎᎎᎎ}
č̟	post-alveolar glottalized hushing palatalized affricate	ჩ ^{ᎎ̟}
č ^v	same, dentolabialized	ჩ ^{ᎎᎎᎎᎎ}
č ^w	same, labialized	ჩ ^{ᎎᎎᎎᎎᎎ}
č ^ɸ	post-alveolar glottalized hushing velarized affricate	ჩ ^{ᎎᎎ}
č ^v	same, dentolabialized	ჩ ^{ᎎᎎᎎᎎ}
č ^w	same, labialized	ჩ ^{ᎎᎎᎎᎎᎎ}
ž	post-alveolar voiced hushing fricative	ჟ
ž ^v	same, dentolabialized	ჟ ^ᎎ
ž ^w	same, labialized	ჟ ^{ᎎᎎ}
ž ^ʰ	same, lenis (weak)	ჟ ^ʰ
ž ^v	same, lenis (weak) and dentolabialized	ჟ ^{ᎎᎎ}
ž ^w	same, lenis (weak) and labialized	ჟ ^{ᎎᎎᎎ}
ž̟	same, palatalized	ჟ [̟]
ž ^v	same, palatalized and dentolabialized	ჟ ^{ᎎᎎ}
ž ^w	same, palatalized and labialized	ჟ ^{ᎎᎎᎎ}
ž ^ɸ	post-alveolar voiced hushing velarized fricative	ჟ ^ᎎ
ž ^v	same, dentolabialized	ჟ ^{ᎎᎎᎎᎎ}

ʒ ^{pw}	same, labialized	ʒ ^{pw}
ʒ	post-alveolar voiceless hushing fricative	ʒ
ʒ ^v	same, dentolabialized	ʒ ^v
ʒ ^w	same, labialized	ʒ ^w
ʒ:	same, tense	ʒ:
ʒ ^v :	same, tense and dentolabialized	ʒ ^v :
ʒ ^w :	same, tense and labialized	ʒ ^w :
ʒ ^l	post-alveolar voiceless lenis (weak) hushing fricative	ʒ ^l
ʒ ^{lv}	same, dentolabialized	ʒ ^{lv}
ʒ ^{lw}	same, labialized	ʒ ^{lw}
ʒ ^l :	same, tense	ʒ ^l :
ʒ ^{lv} :	same, tense and dentolabialized	ʒ ^{lv} :
ʒ ^{lw} :	same, tense and labialized	ʒ ^{lw} :
ʒ̟	post-alveolar voiceless palatalized hushing fricative	ʒ̟
ʒ̟ ^v	same, dentolabialized	ʒ̟ ^v
ʒ̟ ^w	same, labialized	ʒ̟ ^w
ʒ̠	post-alveolar voiceless velarized hushing fricative	ʒ̠
ʒ̠ ^v	same, dentolabialized	ʒ̠ ^v
ʒ̠ ^w	same, labialized	ʒ̠ ^w
ʒ̥	post-alveolar voiceless hushing fricative	ʒ̥
ʒ̥ ^v	same, dentolabialized	ʒ̥ ^v
ʒ̥ ^w	same, labialized	ʒ̥ ^w

ʒ:	same, tense	ʒ̄
ʒ̄:	same, tense and dentolabialized	ʒ̄°
ʒ̄j	post-alveolar voiceless palatalized hushing fricative	ʒ̄j̄
ʒ̄ɸ	same, velarized	ʒ̄ɸ
Guttural consonants		
g	voiced velar stop	ḡ
g ^v	same, dentolabialized	ḡ°
g ^w	same, labialized	ḡw̄
g ^ʼ	same, lenis (weak)	ḡʼ
g ^{ʼv}	same, lenis (weak) and dentolabialized	ḡʼ°
g ^{ʼw}	same, lenis (weak) and labialized	ḡʼw̄
gj	voiced velar stop palatalized	ḡj̄
gj ^v	same, dentolabialized	ḡj̄°
gj ^w	same, labialized	ḡj̄w̄
gʷ	voiced uvular stop	ḡʷ
gʷ ^v	same, dentolabialized	ḡʷ°
gʷ ^w	same, labialized	ḡʷw̄
k	voiceless (aspirated) velar stop	k̄
k ^ʼ	same, lenis (weak)	k̄ʼ
k ^{ʼv}	same, dentolabialized	k̄ʼ°
k ^{ʼw}	same, labialized	k̄ʼw̄
k ^v	voiceless (aspirated) velar stop dentolabialized	k̄°

k^w	same, labialized	ꨀꨣ
k:	same, tense	ꨀꨣ
k^v:	same, dentolabialized	ꨀꨣ
k^w:	same, labialized	ꨀꨣ
kj	voiceless (aspirated) velar stop palatalized	ꨀꨣ
kj^v	same, dentolabialized	ꨀꨣ
kj^w	same, labialized	ꨀꨣ
k^h	voiceless (not aspirated) velar stop - preruptive	ꨀꨣ
k^h^v	same, dentolabialized	ꨀꨣ
k^h^w	same, labialized	ꨀꨣ
k^ʰ	voiceless (aspirated) uvular stop	ꨀꨣ
k^ʰ^v	same, dentolabialized	ꨀꨣ
k^ʰ^w	same, labialized	ꨀꨣ
ꨀꨣ	glottalized velar stop	ꨀꨣ
ꨀꨣ	same, lenis (weak)	ꨀꨣ
ꨀꨣ^v	same, dentolabialized	ꨀꨣ
ꨀꨣ^w	same, labialized	ꨀꨣ
ꨀꨣ^v	glottalized velar stop dentolabialized	ꨀꨣ
ꨀꨣ^w	same, dentolabialized	ꨀꨣ
ꨀꨣ:	glottalized tense velar stop	ꨀꨣ
ꨀꨣj	glottalized velar stop palatalized	ꨀꨣ
ꨀꨣj:	same, tense	ꨀꨣ

ᵏʲʷ	same, dentolabialized	ᵑ
ᵏʲʷ	same, labialized	ᵑᵝ
ᵏʷ:	glottalized tense velar stop dentolabialized	ᵑ̥
ᵏʷ:	same, labialized	ᵑᵝ̥
ᵏʲʷ:	glottalized tense velar stop palatalized and dentolabialized	ᵑ̥
ᵏʲʷ:	same, labialized	ᵑᵝ̥
ᵑ̥	glottalized uvular stop	ᵑ̥
ᵑ̥ᵛ	same, dentolabialized	ᵑ̥ᵛ
ᵑ̥ᵝ	same, labialized	ᵑ̥ᵝ
ɣ	voiced velar fricative	ɣ
ɣᵛ	same, dentolabialized	ɣᵛ
ɣᵝ	same, labialized	ɣᵝ
ɣʲ	same, palatalized	ɣʲ
ɣʲᵛ	same, palatalized and dentolabialized	ɣʲᵛ
ɣʲᵝ	same, palatalized and labialized	ɣʲᵝ
ɣʰ	voiced velar lenis (weak) fricative	ɣʰ
ɣʰᵛ	same, dentolabialized	ɣʰᵛ
ɣʰᵝ	same, labialized	ɣʰᵝ
ɣ̠	voiced pharyngealized velar fricative	ɣ̠
ɣ̠ᵛ	same, dentolabialized	ɣ̠ᵛ
ɣ̠ᵝ	same, labialized	ɣ̠ᵝ
ɣ̠̥	voiced uvular fricative	ɣ̠̥

γ^v	same, dentolabialized	ᄃ ^o
γ^w	same, labialized	ᄃ ^u
γ^c	medio-lingual spirant	ᄃ
$\gamma^{c,v}$	same, dentolabialized	ᄃ ^o
$\gamma^{c,w}$	same, labialized	ᄃ ^u
x	voiceless velar fricative	ᄆ
x^j	same, palatalized	ᄆ ^ɨ
x^c	same, lenis (weak)	ᄆ ^h
ɣ	same, pharyngealized	ᄆ
x:	same, tense	ᄆ ^h
x^j:	same, palatalized and tense	ᄆ ^{hɨ}
x^{jv}	same, palatalized and dentolabialized	ᄆ ^o
x^{jw}	same, palatalized and labialized	ᄆ ^u
x^{jv}:	same, tense, palatalized and dentolabialized	ᄆ ^{hɔ}
x^{jw}:	same, tense, palatalized and labialized	ᄆ ^{hɨu}
x^{c,v}	voiceless velar fricative lenis (weak) and dentolabialized	ᄆ ^h
x^{c,w}	same, labialized	ᄆ ^{hu}
x^c:	voiceless tense velar fricative lenis (weak)	ᄆ ^h
ɣ^c	same, pharyngealized	ᄆ
ɣ^j	voiceless velar fricative palatalized and pharyngealized	ᄆ ^ɨ
ɣ^v	same, dentolabialized	ᄆ ^o
ɣ^w	same, labialized	ᄆ ^u

q ^v	voiceless (aspirated) pharyngeal affricate lenis (weak) and dentolabialized	ꨀ
q ^w	voiceless (aspirated) pharyngeal affricate lenis (weak) and labialized	ꨁ
q̥	voiceless (aspirated) pharyngeal affricate pharyngealized	ꨂ
q ^v	same, dentolabialized	ꨃ
q ^w	same, labialized	ꨄ
q̥:	voiceless (aspirated) tense pharyngeal affricate pharyngealized	ꨅ
q̥ʰ	voiceless (not aspirated) pharyngeal affricate - preruptive	ꨆ
q̥ ^v	same, dentolabialized	ꨇ
q̥ ^w	same, labialized	ꨈ
q̥̥	glottalized labial stop	ꨉ
q̥̥ʲ	same, palatalized	ꨊ
q̥̥:	same, tense	ꨋ
q̥̥ ^v	same, dentolabialized	ꨌ
q̥̥ ^w	same, labialized	ꨍ
q̥̥ʲ ^v	palatalized and dentolabialized	ꨎ
q̥̥ʲ ^w	palatalized and labialized	ꨏ
q̥̥ʰ	glottalized labial stop lenis (weak)	ꨐ
q̥̥ʰ:	same, lenis (weak) and tense	ꨑ
q̥̥ ^v	glottalized labial stop lenis (weak) and dentolabialized	ꨒ
q̥̥ ^w	same, labialized	ꨓ
q̥̥ ^v :	glottalized tense labial stop dentolabialized	ꨔ

ḡ ^w :	same, labialized	ḡ ^w
ḡ ^v :	glottalized tense labial stop lenis (weak) and dentolabialized	ḡ ^v
ḡ ^w :	same, labialized	ḡ ^w
ḡ	glottalized labial stop pharyngealized	ḡ
ḡ:	same, tense	ḡ:
ḡ ^v	glottalized labial stop pharyngealized and dentolabialized	ḡ ^v
ḡ ^w	same, labialized	ḡ ^w
ω	voiced pharyngeal fricative	ω
ω ^v	same, dentolabialized	ω ^v
ω ^w	same, labialized	ω ^w
ħ	voiceless pharyngeal fricative	ħ
ħ ^v	same, dentolabialized	ħ ^v
ħ ^w	same, labialized	ħ ^w
ħ	glottalized emphatic pharyngeal fricative	ħ
ħ ^v	same, dentolabialized	ħ ^v
ħ ^w	same, labialized	ħ ^w
	Laryngeals	
ʕ	voiced laryngeal fricative	ʕ
ʕ ^v	same, dentolabialized	ʕ ^v
ʕ ^w	same, labialized	ʕ ^w

h	voiceless laryngeal fricative	ح
h^j	same, palatalized	حج
h^v	same, dentolabialized	حڤ
h^w	same, labialized	حڤ
h^{jv}	same, palatalized and dentolabialized	حجڤ
h^{jw}	same, palatalized and labialized	حجڤ
ʔ	glottalized emphatic laryngeal fricative	ع
ʔ^j	same, palatalized	عج
ʔ^v	same, dentolabialized	عڤ
ʔ^w	same, labialized	عڤ
ʔ^{jv}	same, palatalized and dentolabialized	عجڤ
ʔ^{jw}	same, palatalized and labialized	عجڤ