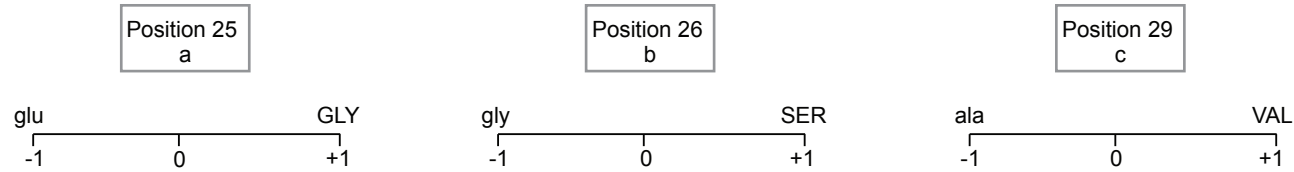
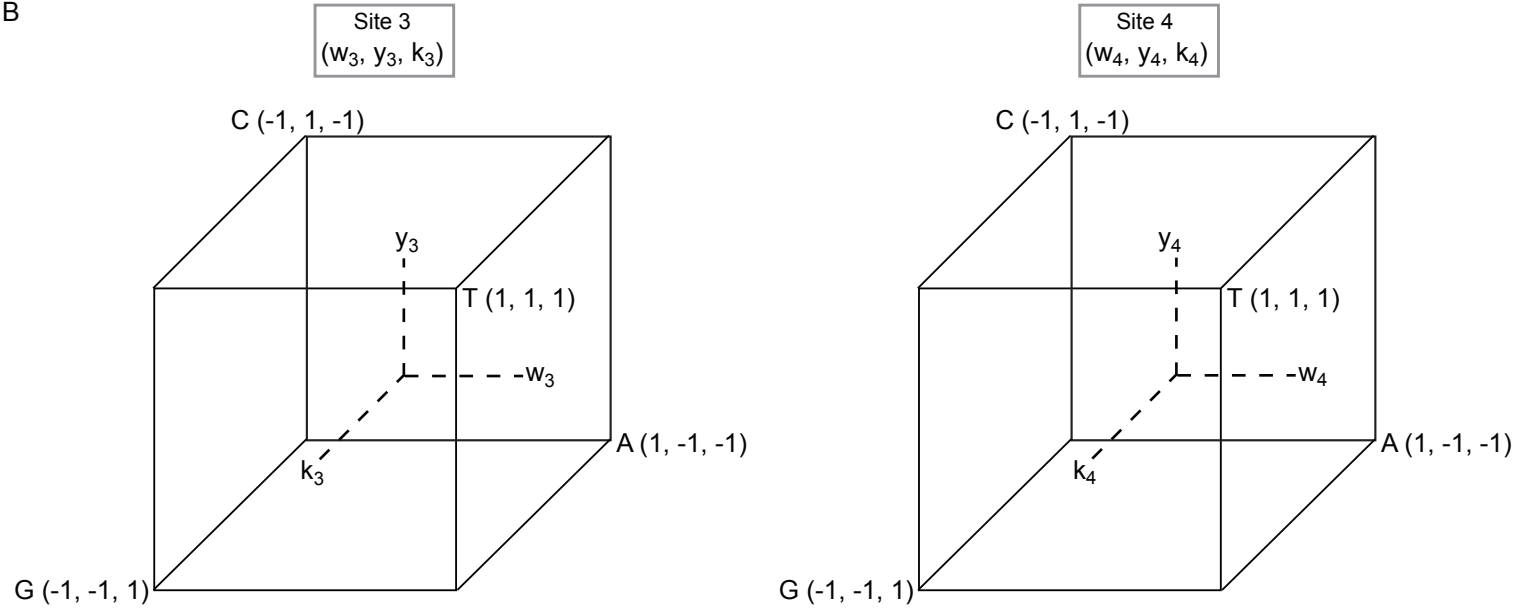


A



B



C.

Genetic Term	abc-/WYK-encoded equation
glu25GLY	2a
gly26SER	2b
ala29VAL	2c
A3	$w_3 - y_3 - k_3$
C3	$-w_3 + y_3 - k_3$
G3	$-w_3 - y_3 + k_3$
T3	$w_3 + y_3 + k_3$
A4	$w_4 - y_4 - k_4$
C4	$-w_4 + y_4 - k_4$
G4	$-w_4 - y_4 + k_4$
T4	$w_4 + y_4 + k_4$
glu25GLY x gly26SER	2 (ab)
glu25GLY x ala29VAL	2 (ac)
gly26SER x ala29VAL	2 (bc)
A3 x A4	$w_3w_4 - w_3y_4 - w_3k_4 - y_3w_4 + y_3y_4 + y_3k_4 - k_3w_4 + k_3y_4 + k_3k_4$
A3 x C4	$-w_3w_4 + w_3y_4 - w_3k_4 + y_3w_4 - y_3y_4 + y_3k_4 + k_3w_4 - k_3y_4 + k_3k_4$
A3 x G4	$-w_3w_4 - w_3y_4 + w_3k_4 + y_3w_4 + y_3y_4 - y_3k_4 + k_3w_4 + k_3y_4 - k_3k_4$
A3 x T4	$w_3w_4 + w_3y_4 + w_3k_4 - y_3w_4 - y_3y_4 - y_3k_4 - k_3w_4 - k_3y_4 - k_3k_4$
C3 x A4	$-w_3w_4 + w_3y_4 + w_3k_4 + y_3w_4 - y_3y_4 - y_3k_4 - k_3w_4 + k_3y_4 + k_3k_4$
C3 x C4	$w_3w_4 - w_3y_4 + w_3k_4 - y_3w_4 + y_3y_4 - y_3k_4 + k_3w_4 - k_3y_4 + k_3k_4$
C3 x G4	$w_3w_4 + w_3y_4 - w_3k_4 - y_3w_4 - y_3y_4 + y_3k_4 + k_3w_4 + k_3y_4 - k_3k_4$
C3 x T4	$-w_3w_4 - w_3y_4 - w_3k_4 + y_3w_4 + y_3y_4 + y_3k_4 - k_3w_4 - k_3y_4 - k_3k_4$
G3 x A4	$-w_3w_4 + w_3y_4 + w_3k_4 - y_3w_4 + y_3y_4 + y_3k_4 + k_3w_4 - k_3y_4 - k_3k_4$
G3 x C4	$w_3w_4 - w_3y_4 + w_3k_4 + y_3w_4 - y_3y_4 + y_3k_4 - k_3w_4 + k_3y_4 - k_3k_4$
G3 x T4	$-w_3w_4 - w_3y_4 - w_3k_4 - y_3w_4 - y_3y_4 - y_3k_4 + k_3w_4 + k_3y_4 + k_3k_4$
T3 x A4	$w_3w_4 - w_3y_4 - w_3k_4 + y_3w_4 - y_3y_4 - y_3k_4 + k_3w_4 - k_3y_4 - k_3k_4$
T3 x C4	$-w_3w_4 + w_3y_4 - w_3k_4 - y_3w_4 + y_3y_4 - y_3k_4 - k_3w_4 + k_3y_4 - k_3k_4$
T3 x G4	$-w_3w_4 - w_3y_4 + w_3k_4 - y_3w_4 - y_3y_4 + y_3k_4 - k_3w_4 - k_3y_4 + k_3k_4$
T3 x T4	$w_3w_4 + w_3y_4 + w_3k_4 + y_3w_4 + y_3y_4 + y_3k_4 + k_3w_4 + k_3y_4 + k_3k_4$
glu25GLY x A3	2 (aw ₃ -ay ₃ -ak ₃)
glu25GLY x C3	2 (-aw ₃ +ay ₃ -ak ₃)
glu25GLY x G3	2 (-aw ₃ -ay ₃ +ak ₃)
glu25GLY x T3	2 (aw ₃ +ay ₃ +ak ₃)
glu25GLY x A4	2 (aw ₄ -ay ₄ -ak ₄)
glu25GLY x C4	2 (-aw ₄ +ay ₄ -ak ₄)
glu25GLY x G4	2 (-aw ₄ -ay ₄ +ak ₄)
glu25GLY x T4	2 (aw ₄ +ay ₄ +ak ₄)
gly26SER x A3	2 (bw ₃ -by ₃ -bk ₃)
gly26SER x C3	2 (-bw ₃ +by ₃ -bk ₃)
gly26SER x G3	2 (-bw ₃ -by ₃ +bk ₃)
gly26SER x T3	2 (bw ₃ +by ₃ +bk ₃)
gly26SER x A4	2 (bw ₄ -by ₄ -bk ₄)
gly26SER x C4	2 (-bw ₄ +by ₄ -bk ₄)
gly26SER x G4	2 (-bw ₄ -by ₄ +bk ₄)
gly26SER x T4	2 (bw ₄ +by ₄ +bk ₄)
ala29VAL x A3	2 (cw ₃ -cy ₃ -ck ₃)
ala29VAL x C3	2 (-cw ₃ +cy ₃ -ck ₃)
ala29VAL x G3	2 (-cw ₃ -cy ₃ +ck ₃)
ala29VAL x T3	2 (cw ₃ +cy ₃ +ck ₃)
ala29VAL x A4	2 (cw ₄ -cy ₄ -ck ₄)
ala29VAL x C4	2 (-cw ₄ +cy ₄ -ck ₄)
ala29VAL x G4	2 (-cw ₄ -cy ₄ +ck ₄)
ala29VAL x T4	2 (cw ₄ +cy ₄ +ck ₄)
glu25GLY x gly26SER x A3	2 (abw ₃ -aby ₃ -abk ₃)
glu25GLY x gly26SER x C3	2 (-abw ₃ +aby ₃ -abk ₃)
glu25GLY x gly26SER x G3	2 (-abw ₃ -aby ₃ +abk ₃)
glu25GLY x gly26SER x T3	2 (bk ₃ +abw ₃ +aby ₃ +abk ₃)

glu25GLY	x	gly26SER	x	A4	$2(abw_4 - aby_4 - abk_4)$
glu25GLY	x	gly26SER	x	C4	$2(-abw_4 + aby_4 - abk_4)$
glu25GLY	x	gly26SER	x	G4	$2(-abw_4 - aby_4 + abk_4)$
glu25GLY	x	gly26SER	x	T4	$2(abw_4 + aby_4 + abk_4)$
glu25GLY	x	ala29VAL	x	A3	$2(acw_3 - acy_3 - ack_3)$
glu25GLY	x	ala29VAL	x	C3	$2(-acw_3 + acy_3 - ack_3)$
glu25GLY	x	ala29VAL	x	G3	$2(-acw_3 - acy_3 + ack_3)$
glu25GLY	x	ala29VAL	x	T3	$2(acw_3 + acy_3 + ack_3)$
glu25GLY	x	ala29VAL	x	A4	$2(acw_4 - acy_4 - ack_4)$
glu25GLY	x	ala29VAL	x	C4	$2(-acw_4 + acy_4 - ack_4)$
glu25GLY	x	ala29VAL	x	G4	$2(-acw_4 - acy_4 + ack_4)$
glu25GLY	x	ala29VAL	x	T4	$2(acw_4 + acy_4 + ack_4)$
gly26SER	x	ala29VAL	x	A3	$2(bcw_3 - bcy_3 - bck_3)$
gly26SER	x	ala29VAL	x	C3	$2(-bcw_3 + bcy_3 - bck_3)$
gly26SER	x	ala29VAL	x	G3	$2(-bcw_3 - bcy_3 + bck_3)$
gly26SER	x	ala29VAL	x	T3	$2(bcw_3 + bcy_3 + bck_3)$
gly26SER	x	ala29VAL	x	A4	$2(bcw_4 - bcy_4 - bck_4)$
gly26SER	x	ala29VAL	x	C4	$2(-bcw_4 + bcy_4 - bck_4)$
gly26SER	x	ala29VAL	x	G4	$2(-bcw_4 - bcy_4 + bck_4)$
gly26SER	x	ala29VAL	x	T4	$2(bcw_4 + bcy_4 + bck_4)$
glu25GLY	x	A3	x	A4	$2(aw_3w_4 - aw_3y_4 - aw_3k_4 - ay_3w_4 + ay_3y_4 + ay_3k_4 - ak_3w_4 + ak_3y_4 + ak_3k_4)$
glu25GLY	x	A3	x	C4	$2(-aw_3w_4 + aw_3y_4 - aw_3k_4 + ay_3w_4 - ay_3y_4 + ay_3k_4 + ak_3w_4 - ak_3y_4 + ak_3k_4)$
glu25GLY	x	A3	x	G4	$2(-aw_3w_4 - aw_3y_4 + aw_3k_4 + ay_3w_4 + ay_3y_4 - ay_3k_4 + ak_3w_4 + ak_3y_4 - ak_3k_4)$
glu25GLY	x	A3	x	T4	$2(aw_3w_4 + aw_3y_4 + aw_3k_4 - ay_3w_4 - ay_3y_4 - ay_3k_4 - ak_3w_4 - ak_3y_4 - ak_3k_4)$
glu25GLY	x	C3	x	A4	$2(-aw_3w_4 + aw_3y_4 + aw_3k_4 + ay_3w_4 - ay_3y_4 - ay_3k_4 - ak_3w_4 + ak_3y_4 + ak_3k_4)$
glu25GLY	x	C3	x	C4	$2(aw_3w_4 - aw_3y_4 + aw_3k_4 - ay_3w_4 + ay_3y_4 - ay_3k_4 + ak_3w_4 - ak_3y_4 + ak_3k_4)$
glu25GLY	x	C3	x	G4	$2(aw_3w_4 + aw_3y_4 - aw_3k_4 - ay_3w_4 - ay_3y_4 + ay_3k_4 + ak_3w_4 + ak_3y_4 - ak_3k_4)$
glu25GLY	x	C3	x	T4	$2(-aw_3w_4 - aw_3y_4 - aw_3k_4 + ay_3w_4 + ay_3y_4 + ay_3k_4 - ak_3w_4 - ak_3y_4 - ak_3k_4)$
glu25GLY	x	G3	x	A4	$2(-aw_3w_4 + aw_3y_4 + aw_3k_4 - ay_3w_4 + ay_3y_4 + ay_3k_4 + ak_3w_4 - ak_3y_4 - ak_3k_4)$
glu25GLY	x	G3	x	C4	$2(aw_3w_4 - aw_3y_4 + aw_3k_4 + ay_3w_4 - ay_3y_4 + ay_3k_4 - ak_3w_4 + ak_3y_4 - ak_3k_4)$
glu25GLY	x	G3	x	G4	$2(aw_3w_4 + aw_3y_4 - aw_3k_4 + ay_3w_4 + ay_3y_4 - ay_3k_4 - ak_3w_4 - ak_3y_4 + ak_3k_4)$
glu25GLY	x	G3	x	T4	$2(-aw_3w_4 - aw_3y_4 - aw_3k_4 - ay_3w_4 - ay_3y_4 - ay_3k_4 + ak_3w_4 + ak_3y_4 + ak_3k_4)$
glu25GLY	x	T3	x	A4	$2(aw_3w_4 - aw_3y_4 - aw_3k_4 + ay_3w_4 - ay_3y_4 - ay_3k_4 + ak_3w_4 - ak_3y_4 - ak_3k_4)$
glu25GLY	x	T3	x	C4	$2(-aw_3w_4 + aw_3y_4 - aw_3k_4 - ay_3w_4 + ay_3y_4 - ay_3k_4 - ak_3w_4 + ak_3y_4 - ak_3k_4)$
glu25GLY	x	T3	x	G4	$2(-aw_3w_4 - aw_3y_4 + aw_3k_4 - ay_3w_4 - ay_3y_4 + ay_3k_4 - ak_3w_4 - ak_3y_4 + ak_3k_4)$
glu25GLY	x	T3	x	T4	$2(aw_3w_4 + aw_3y_4 + aw_3k_4 + ay_3w_4 + ay_3y_4 + ay_3k_4 + ak_3w_4 + ak_3y_4 + ak_3k_4)$
gly26SER	x	A3	x	A4	$2(bw_3w_4 - bw_3y_4 - bw_3k_4 - by_3w_4 + by_3y_4 + by_3k_4 - bk_3w_4 + bk_3y_4 + bk_3k_4)$
gly26SER	x	A3	x	C4	$2(-bw_3w_4 + bw_3y_4 - bw_3k_4 + by_3w_4 - by_3y_4 + by_3k_4 + bk_3w_4 - bk_3y_4 + bk_3k_4)$
gly26SER	x	A3	x	G4	$2(-bw_3w_4 - bw_3y_4 + bw_3k_4 + by_3w_4 + by_3y_4 - by_3k_4 + bk_3w_4 + bk_3y_4 - bk_3k_4)$
gly26SER	x	A3	x	T4	$2(bw_3w_4 + bw_3y_4 + bw_3k_4 - by_3w_4 - by_3y_4 - by_3k_4 - bk_3w_4 - bk_3y_4 - bk_3k_4)$
gly26SER	x	C3	x	A4	$2(-bw_3w_4 + bw_3y_4 + bw_3k_4 - by_3w_4 - by_3y_4 - by_3k_4 - bk_3w_4 + bk_3y_4 + bk_3k_4)$
gly26SER	x	C3	x	C4	$2(bw_3w_4 - bw_3y_4 + bw_3k_4 - by_3w_4 + by_3y_4 - by_3k_4 + bk_3w_4 - bk_3y_4 + bk_3k_4)$
gly26SER	x	C3	x	G4	$2(bw_3w_4 + bw_3y_4 - bw_3k_4 - by_3w_4 - by_3y_4 + by_3k_4 + bk_3w_4 + bk_3y_4 - bk_3k_4)$
gly26SER	x	C3	x	T4	$2(-bw_3w_4 - bw_3y_4 - bw_3k_4 + by_3w_4 + by_3y_4 + by_3k_4 - bk_3w_4 - bk_3y_4 - bk_3k_4)$
gly26SER	x	G3	x	A4	$2(-bw_3w_4 + bw_3y_4 + bw_3k_4 - by_3w_4 + by_3y_4 + by_3k_4 + bk_3w_4 - bk_3y_4 - bk_3k_4)$
gly26SER	x	G3	x	C4	$2(bw_3w_4 - bw_3y_4 + bw_3k_4 + by_3w_4 - by_3y_4 - by_3k_4 - bk_3w_4 + bk_3y_4 - bk_3k_4)$
gly26SER	x	G3	x	G4	$2(bw_3w_4 + bw_3y_4 - bw_3k_4 + by_3w_4 + by_3y_4 - by_3k_4 - bk_3w_4 - bk_3y_4 + bk_3k_4)$
gly26SER	x	G3	x	T4	$2(-bw_3w_4 - bw_3y_4 - bw_3k_4 - by_3w_4 - by_3y_4 - by_3k_4 + bk_3w_4 + bk_3y_4 + bk_3k_4)$
gly26SER	x	T3	x	A4	$2(bw_3w_4 - bw_3y_4 - bw_3k_4 + by_3w_4 - by_3y_4 - by_3k_4 + bk_3w_4 - bk_3y_4 - bk_3k_4)$
gly26SER	x	T3	x	C4	$2(-bw_3w_4 + bw_3y_4 - bw_3k_4 - by_3w_4 + by_3y_4 - by_3k_4 - bk_3w_4 + bk_3y_4 - bk_3k_4)$
gly26SER	x	T3	x	G4	$2(-bw_3w_4 - bw_3y_4 + bw_3k_4 - by_3w_4 - by_3y_4 + by_3k_4 - bk_3w_4 - bk_3y_4 + bk_3k_4)$
gly26SER	x	T3	x	T4	$2(bw_3w_4 + bw_3y_4 + bw_3k_4 + by_3w_4 + by_3y_4 + by_3k_4 + bk_3w_4 + bk_3y_4 + bk_3k_4)$
ala29VAL	x	A3	x	A4	$2(cw_3w_4 - cw_3y_4 - cw_3k_4 - cy_3w_4 + cy_3y_4 + cy_3k_4 - ck_3w_4 + ck_3y_4 + ck_3k_4)$
ala29VAL	x	A3	x	C4	$2(-cw_3w_4 + cw_3y_4 - cw_3k_4 + cy_3w_4 - cy_3y_4 + cy_3k_4 + ck_3w_4 - ck_3y_4 + ck_3k_4)$
ala29VAL	x	A3	x	G4	$2(-cw_3w_4 - cw_3y_4 + cw_3k_4 + cy_3w_4 + cy_3y_4 - cy_3k_4 + ck_3w_4 + ck_3y_4 - ck_3k_4)$
ala29VAL	x	A3	x	T4	$2(cw_3w_4 + cw_3y_4 + cw_3k_4 - cy_3w_4 - cy_3y_4 - cy_3k_4 - ck_3w_4 - ck_3y_4 - ck_3k_4)$
ala29VAL	x	C3	x	A4	$2(-cw_3w_4 + cw_3y_4 + cw_3k_4 + cy_3w_4 - cy_3y_4 - cy_3k_4 - ck_3w_4 + ck_3y_4 + ck_3k_4)$
ala29VAL	x	C3	x	C4	$2(cw_3w_4 - cw_3y_4 + cw_3k_4 - cy_3w_4 + cy_3y_4 - cy_3k_4 + ck_3w_4 - ck_3y_4 + ck_3k_4)$
ala29VAL	x	C3	x	G4	$2(cw_3w_4 + cw_3y_4 - cw_3k_4 - cy_3w_4 - cy_3y_4 + cy_3k_4 + ck_3w_4 + ck_3y_4 - ck_3k_4)$
ala29VAL	x	C3	x	T4	$2(-cw_3w_4 - cw_3y_4 - cw_3k_4 + cy_3w_4 + cy_3y_4 + cy_3k_4 - ck_3w_4 - ck_3y_4 - ck_3k_4)$

ala29VAL	x	G3	x	A4	$2(-cw_3w_4+cw_3y_4+cw_3k_4-cy_3w_4+cy_3y_4+cy_3k_4+ck_3w_4-ck_3y_4-ck_3k_4)$
ala29VAL	x	G3	x	C4	$2(cw_3w_4-cw_3y_4+cw_3k_4+cy_3w_4-cy_3y_4+cy_3k_4-ck_3w_4+ck_3y_4-ck_3k_4)$
ala29VAL	x	G3	x	G4	$2(cw_3w_4+cw_3y_4-cw_3k_4+cy_3w_4+cy_3y_4-cy_3k_4-ck_3w_4-ck_3y_4+ck_3k_4)$
ala29VAL	x	G3	x	T4	$2(-cw_3w_4-cw_3y_4-cw_3k_4-cy_3w_4-cy_3y_4-cy_3k_4+ck_3w_4+ck_3y_4+ck_3k_4)$
ala29VAL	x	T3	x	A4	$2(cw_3w_4-cw_3y_4-cw_3k_4+cy_3w_4-cy_3y_4-cy_3k_4+ck_3w_4-ck_3y_4-ck_3k_4)$
ala29VAL	x	T3	x	C4	$2(-cw_3w_4+cw_3y_4-cw_3k_4-cy_3w_4+cy_3y_4-cy_3k_4-ck_3w_4+ck_3y_4-ck_3k_4)$
ala29VAL	x	T3	x	G4	$2(-cw_3w_4-cw_3y_4+cw_3k_4-cy_3w_4-cy_3y_4+cy_3k_4-ck_3w_4-ck_3y_4+ck_3k_4)$
ala29VAL	x	T3	x	T4	$2(cw_3w_4+cw_3y_4+cw_3k_4+cy_3w_4+cy_3y_4+cy_3k_4+ck_3w_4+ck_3y_4+ck_3k_4)$