

Block 2a

Basic types

Type 1 **ITIKNISDLIIAENKKRSGHPTTTTNGAGTQPANGSIAAASSETTQIS**-----

F

FP

Type 2 ETISNINKKLISDENAKRGGQSTNTTNGTGAQNNAQ-----

S

Type 3 *DTIKKISDLITEEHKKRGGQY~~ST~~ISGNGAQT~~DGHQ~~TTASSETSSGSSVSSVS*

Type 4 *KTIDNINKLISTENDKRNGQY~~TD~~MINGNGTQADGTQ~~GTT~~GSSETTQNS*-----

Recombinant types

Type 5 *DTIKKISDLITEEH***KKRSGHPTTTTNGAGTQPANGSIAAASSETTQIS**-----

Type 6 *KTIDNINKKLISDENAKRGGQY~~TD~~MINGNGTQADGTQ~~GTT~~GSSETTQNS*-----

Type 7 ETISNINKKLISDENAKRGGQY~~TD~~MINGNGTQADGTQ~~GTT~~GSSETTQNS-----

Type 8 ETISNINKKLISDENAKRGGQ*SISTISGNGAQT~~DGHQ~~PTTASSETSSGSSVSSVS*

Type 9 ETISNINKKLISDENAKRGGQSTNTTNGTGAQT~~DGHQ~~PTTASSETSSGSSVSSVS

Type 1 = Sal-1, T064, TF14, TF127, BD1, BD2, BD9, BP1, BP13, BP29, BP63, IN1, SK1, SK2, SK3, SK4, VM55

Type 2 = Belem, TO77, TE26, TG48, BP39, BR44, VM278

Type 3 = T107, TC22, TG44, BD4, BP30

Type 4 = TC28, TC103

Type 5 = TG57, TV400

Type 6 = TG46, BR07

Type 7 = TD29, TG55, BD6

Type 8 = TFF18

Type 9 = T124, T131, TG40

Block 2b

Types

Type 1 **GSSNSGSTGHGSSNSGSTGHGSSNSGSSGTGSSNSGSSGTGSTGN**
Type 2 **GSSNSGSTGHGSSNSGSTVTGSTVTGSTGTGSTGT-----GSTGN**
Type 3 **GSSNSGSTGHGSSSGTGSSGTGSSNSGSTGH-----GSTGN**
Type 4 **GSSNSGSSGTGSSNSGSSGTGSSNSGSSGT-----GSTGN**
Type 5 **GSSNSGSTGHGSSNSGSSGTGSTGTGSTGT-----GSTGN**
Type 6 **GSSNSGSTGHGSSNSGSSSTGSSGTGSTGT-----GSTGN**
Type 7 **GSSNSGSTGHGSSNSGSTGHGSSNSGSSGT-----GSTGN**
Type 8 **GSSNSGSSSTGSSNSGSSSTGSSGT-----GSTGT**
Type 9 **GSSNSGSTGHGSSNSGSSGTGSTGT-----GSTGN**
Type 10 **GSSGTGSSSDSGSSGTGSSSDSGSSGT-----GSTGN**
Type 11 **GSSNSGSTGHGSSNSGSSGT-----GSTGN**
Type 12 **GSSGLGSSGTGSTGTGSTGT-----GSTGN**
Type 13 **GSSGTGSSGTGSSSDSGSSGT-----GSTGN**
Type 14 **GSSGTGLTRSGSSSDSGSSGT-----GSTGN**
Type 15 **GSSGTGSSSDSGSSGT-----GSTGN**
Type 16 **GSSNSGSSGT-----GSTGN**
Type 17 **GSSNSGSSAT-----GSTGN**
Type 18 **GSSGLGSSGT-----GSTGN**
Type 19 **-----GSTGN**

Type 1 = IN1
Type 2 = TG57, TV400
Type 3 = VM55
Type 4 = BP1, BP29
Type 5 = SK1, SK2, SK4
Type 6 = T064, TF14, TF127
Type 7 = SK3
Type 8 = Sal-1
Type 9 = BD1, BD2, BD9
Type 10 = TG55
Type 11 = BP13, BP63
Type 12 = T124, T131, TG40
Type 13 = TD29
Type 14 = TC28, TC103
Type 15 = TG46, BD6, BR07
Type 16 = T107, TG44, BD4, BP30
Type 17 = TC22
Type 18 = TFF18
Type 19 = Belem, T077, TE26, TG48, BP39, BR44, VM278

Block 2c

Basic types

Type 1 -----GQSPPAADASSTNANYEAKKIIYQAVYNTIFYTNQLQ
 T
Type 2 TETGTRSSASSNTLSGGDGTTVVGTSSPAPAAPSSTNEDYDEKKKIYQAMYNGIFYTSOLE
 S A N
Type 3 -----ISHPAAPAASSPTDENYTNKKAIYQAVYNIIFYTNLKE
 Q
Type X -----RSSSQARADSRSTDTDYN AKKIIIFYQIYNGIFYTNQLE

Recombinant types

Type 4 -----RSSSQARADSRSTDTDYN AKKIIYQAVYNTIFYTNQLQ
Type 5 -----RSSSQARADSRSTDTDYN AKKIIYQAVYNTIFYTNQLQ
 I P P G
Type 6 -----RSPSQAPAAPSSTNANYEAKKIIYQAVYNTIFYTNQLE
Type 7 -----GQSPPAADASSTNANYEAKKIIYQAVYNTIFYTNQLE
 T
Type 8 -----GQSPPAAPSSTNANYEAKKIIYQAVYNTIFYTNQLE
Type 9 -----ISHSAAPAASSPTDENYTNKKAIYQAVYNIIFYTNQLQ
Type 10 TETGTQSSASSNTLSGGAGTTTVVGTSSPAPAAPSSTNANYEAKKIIYQAVYNTIFYTNQLE

Type 1 = Sal-1, TG57, TV400, BD1, BD2, BD9, IN1

Type 2 = Belem, TE26, VM278

Type 3 = TD29, TG46, TG55, BD6, BR07

Type 4 = BD4

Type 5 = T107, T131, T124, TC22, TG40, TG44, BP30

Type 6 = TFF18

Type 7 = T064, TF14, TF127, BP1, BP13, BP29, BP63, SK1, SK2, SK3, SK4

Type 8 = VM55

Type 9 = TC28, TC103

Type 10 = T077, TG48, BP39, BR44

Type x = A predicted basic type having type 5 sequence at the N terminal part and type 6 sequence at the C terminal part.

Block 4

Basic types

Type 1 **EQVAKEKEKLP**SDYPNTT**NLN-VHKEAESKIAELEKKIEAI**

K

N

Type 2 EQVEAEKKKLPKDNTTNTPLTDEQQKAAQKKIADLESQIVAN

I

Type 3 *EKIATEKGGKFPNNNLNVENPTD-EQKTAKSNIADLEKKIEAI*

K

Recombinant types

Type 4 **EQVAKEKEKLP**KDNTT**TTNLN-VHKEAESKIAELEKKIEAI**

Type 5 **EQVAKEKEKLP**KDNTT**TTTLTA-EQKAAQ**SKIAELEKKIEAI

I

N

D

VD

Type 1 = Sal-1, T131, TG40, TFF18

Type 2 = Belem, T077, TE26, TG48, BP39, BR44, VM55, VM278

Type 3 = TG57, TV400, BD1, BD2, BD4, BD9, BP13, BP63, IN1,

SK1, SK2, SK3, SK4

Type 4 = T064, TC28, TC103, TF14, TF127

Type 5 = T107, T124, TC22, TG44, TG55, BD6, BP1, BP29, BP30

TD29, TG46, BR07

Block 6

Basic types

Type 1 **NKPTVAAADIVAKGQSLRGASETG--TTGNTVNAQTAVVQ-PQHQVNAVTVQPGTTGHQAQGGAEETQTNVQAAQVQQTTPAGAGGQVASTQTISQAPAPTQASPEPAPAAPPS**

QQ Q A
P

TI S N V

Type 2 AKPAASAP--VTSGQLLRGSSEAATEVTTNAVITSEVQQQQQQQQQ----- (Q)nNQQQSQVVPAPAGDAQQVISTQPTSQSAAPGVSATPAP-----

G

Recombinant types

Type 3 **NKPTVAAADIVAKGQSLRGASETG--TTGNTVNAQTAVVQ-PQHQVANAVTVQPGTTGHQAQGGAEETQTNVQAAQVQQTTPAGDAQQVISTQPTSQSAAPGVSATPAP-----**

Type 4 **NKPTVAAADIVAKGQSLRGASETG--TTGNTVNAQTAVVQQQQQQ----- (Q)nNQQQSQVVPAPAGDAQQVISTQPTSQSAAPGVSATPAP-----**

QSL

Type 1 = Sal-1, T064, T077, TF14, TF127, TC22, TC28, TC103, TG44, TG48, TG55, TG57, TFF18,

TV400, BD1, BD2, BD4, BD9, BP1, BP13, BP29, BP30, BP63, IN1, VM55

Type 2 = Belem, T107, TE26, TG46, BD6, BR07

Type 3 = T124, T131, TG40

Type 4 = TD29, BP39, BR44, SK1, SK2, SK3, SK4, VM278

Block 8

Basic types

Type 1 **LKSKAAAP--AQSAAKPSGQAGTTPVTTTTAPVTTTTVTPSPQTSVVTSTPPTP--QAEENRRVGGNSEEKPEADTAQVEKF**
N Q

Type 2 *SNNKAAAP--AQSAAKPIGQAVVPQVAPPTPVVAPNSG-NTATPVTTTTVSPGTQSEVSTPVAGESEEEPEASVVQLEKI*

Recombinant types

Type 3 *SNNKAAAP--AQSAAKPSGQAGTTPVTTTTAPVTTTTVTPSPQTSVVTSTPPTP--QAEENQRVGGNSEEKPEADTAQVEKF*
N

Type 4 **LKSKAAAAGPAKPAAKPIGQAVVPQVAPPTPVVAPNSG-NTATPVTTNTTVSPGTQAEENQRVGGNSEEKPEADTAQVEKF**

Type 5 **LKSKAAAAGPAKPAAKPIGQAVVPQVAPPTPVVAPNSG-NTATPVTTNTTVSPGTQSEVSTPVAGESEEEPEASVVQLEKI**
A

Type 1 = Sal-1, T077, T124, T131, TC28, TC103, TG40, TG48, TG55, TFF18, BD4, BP1, BP29

Type 2 = BP39, BR44

Type 3 = Belem, T064, TD29, TF14, TF127, TG57, TV400, BD1, BD2, BD9, BP13, BP30, BP63
BR07, IN1, VM55, VM278

Type 4 = TC22

Type 5 = T107, TE26, TG44, TG46, BD6, SK1, SK2, SK3, SK4

Block 10

Types

Type 1 GASTTAATLP--VTVPSA--VPGGLPGAG--VPGAAAGLTPPPPAGS--VP-----ATGP--GAAA-----GSTEENVAAK
Type 2 GASTTAATLP--VTVPSA--VPGGLPGAG--VPGAAAA-----VTVPGAG-----VP--AAGA--GAAA-----GSTEENVAAK
Type 3 STSVA-----VTVPGAV-VPG-----VPTAAAAGSGASGA---VPPAGGPSPP-----ATGP--GAAA-----GSTEENVAAK
Type 4 STSVA-----VTVPGAV-VPG-----VPTAAAAGSGASGA---VPPAGGPSPPATGGV-VPG-----VV-----ESAEAQTKAQ
Type 5 STSVA-----VTVPGAV-VPG-----VPTAAAAGSGASGA---VPPAAAAGSGASGA--VP--PAGG--PSPPATGGV-VP--GVV-----ESAEAQTKAQ
Type 6 STSVA-----VTVPGAV-----VTVPGAG-----VPAAGAG-----V-VPGAAAAGVVPGAA---VTVPGAGVPAAGVVPAGAPAGAAPSAPGAQEQTQTQ
Type 7 GASAPAAAA---VTVPGAG-VPAAAA---VTVPGAG-----VPAAG-----V-VPGAPAGAA-----PAGAAPAG---AAPSAPGAQEQTQTQ
Type 8 GASAPAAAA---VTVPGAG-VPAAAA---VTVPGAG-----VPAAG-----V-VPGA-----PAGAAPAG---AAPSAPGAQEQTQTQ
Type 9 SASAPAAAA---VTVPGAGVVPGAAAAG-VVVPGAAAAGV-----VPGASAAG-----V-VPGASAAG-----V-VPGA-----PAG-----AASSAPGAQEQTQTQ
Type 10 SASAPAAAA---VTVPGAG-VPAAGAGV---VPGAAAAGV-----VPGASAAG-----V-VPGA-----PAG-----AAPSAPGAQEQTQTQ
Type 11 SASAPAAA---VTVPGAG-VPAAAA---VTVPGAG-----VPAAGAG-----V-VPGAAAAGVVPGA-----SAA-GVVPGAPAGAAPSAPGAQEQTQTQ
Type 12 SASAPAAAAAAVTVPGAG-VPAAAA---VTVPGAG-----VPAAGAA-----VTVPGA---G-VPAAG---V-VPGA---SAA-GVVPGAPAGAAPSAPGAQEQTQTQ
Type 13 SASAPAAAAAA-VTVPGAG-VPAAAA---VTVPGAG-----VPAAAAA-----VTVPGA---G-VPAAG---V-VPGA---PAG-----AAPSAPGAQEQTQTQ

Type 1 = Sal-1, T064, TD29, TF14, TF127, TG55, BD4, BP39, BR44, SK3

Type 2 = TE26

Type 3 = TG57, TV400, BP13, BP63, BR07, VM55, VM278

Type 4 = T077, T124, TC22, TC28, TC103, TG44, TG48, BP30, IN1

Type 5 = Belem, BP29

Type 6 = TFF18

Type 7 = BP1

Type 8 = BD1, BD2, BD9

Type 9 = T131, TG40

Type 10 = SK1, SK2, SK4

Type 11 = BD6

Type 12 = TG46

Type 13 = T107

Block 12

Basic types

Type 1 **DGVKTEIKKVEDDIKKQDEELKKLGNVNSQDSKKNEFI**
Type 2 **DGVKTEIKKVEDDIKTHDEKLQKLGSEVSQNSEKTQLN**
Type 3 TAVNEEVKKVEADIKAEDDKIKKIGSDSTKTTEKTQSM
E
Type 4 TAVNAQIKKVEDDINTQNEELKKIENEANKTAEKAKFT

Recombinant types

Type 5 **DGVKTEIKKVEDDIKKQDEELKKIENDSTKTTEKAKFT**
Type 6 **DGVKTEIKKVEADIKAEDDKIEKIGSDSTKTTEKTQSM**
Type 7 TAVNAQ**IKKVEDDIKKQDEELKKIENEANKTAEKAKFT**
Type 8 TAVNAQ**IKKVEDDIKAEDDKIKKIGSDSTKTTEKTQSM**
Type 9 TAVNAQIKKVEDDINTQNEELKKIENDSTKTTEKAKFT
Type 10 TAVNAQIKKVEADIKAEDDKIKKIENEANKAAEKTQSM
Type 11 TAVNAQIKKVEADIKAEDDKIKTIGSDSTKTTEKTQSM
Type 12 TAVNEEVKKVEADINTQNEELKKIENEANKTAEKAKFT
Type 13 TAVNEEVKKVEADIKAEDDKIKKIENEANKAAEKTQSM

Type 1 = Sal-1, T064, TE26, TF14, TF127, BP30
Type 2 = TG57, BD4, BP13, BP63, IN1, VM55, VM278
Type 3 = Belem, BD1, BD2, BD9, SK1, SK2, SK3, SK4
Type 4 = T107, BP39, BR44
Type 5 = TG55
Type 6 = TC28, TC103, TG46
Type 7 = BR07
Type 8 = TV400
Type 9 = T077, T124, TG48, BP29
Type 10 = TC22
Type 11 = TG44
Type 12 = BD6
Type 13 = T131, TD29, TFF18, TG40, BP1