

Table S1: TRAP T9/96 and 3D7 peptide sequences and peptide pools

Peptide Name	Peptide sequence T9/96	Peptide sequence 3D7	T9/96 Peptide Pool	3D7 Peptide Pool
TRAP-1	MNHLGNVKYLIVFLIFFDL		TT1-10	TD1-10
TRAP-2	VIVFLIFFDLFLVNGRDVQN		TT1-10	TD1-10
TRAP-3	FLVNGRDVQNNIVDEIKYSE	FLVNGRDVQNNIVDEIKYRE	TT1-10	TD1-10
TRAP-4	NIVDEIKYSEEVCNQVDLY	NIVDEIKYREEVCNDEVLDLY	TT1-10	TD1-10
TRAP-5	EVCNDQVDLYLLMDCSGSIR	EVCNDEVLDLYLLMDCSGSIR	TT1-10	TD1-10
TRAP-6	LLMDCSGSIRRHNVVNHAVP		TT1-10	TD1-10
TRAP-7	RHNWVNHAVPLAMKLIQQLN		TT1-10	TD1-10
TRAP-8	LAMKLIQQLNLNDNAIHLYV	LAMKLIQQLNLNDNAIHLYA	TT1-10	TD1-10
TRAP-9	LNDNAIHLYVNVFSNNAKEI	LNDNAIHLYASVFSNNAREI	TT1-10	TD1-10
TRAP-10	LNDNAIHLYVNVFSNNAKEI	SVFSNNAREIIRLHSDASKN	TT1-10	TD1-10
TRAP-11	IRLHSDASKNKEKALIIIRS	IRLHSDASKNKEKALIIKS	TT11-20	TD11-20
TRAP-12	KEKALIIIRSLSTNLPYGR	KEKALIIKSLLSTNLPYGK	TT11-20	TD11-20
TRAP-13	LLSTNLPYGRNTLDALLQV	LLSTNLPYGKNTLDALLQV	TT11-20	TD11-20
TRAP-14	TNLTLDALLQVRKHLNDRINR		TT11-20	TD11-20
TRAP-15	RKHLNDRINRENANQLVVIL		TT11-20	TD11-20
TRAP-16	ENANQLVVILTDGIPDSIQD		TT11-20	TD11-20
TRAP-17	TDGIPDSIQDSLKESRKLSD		TT11-20	TD11-20
TRAP-18	SLKESRKLSDRGVKIAVFGI		TT11-20	TD11-20
TRAP-19	RGVKIAVFGIGQGINVAFNR		TT11-20	TD11-20
TRAP-20	GQGINVAFNRFLVGCHPSDG		TT11-20	TD11-20
TRAP-21	FLVGCHPSDGKCNLYADSAW		TT21-30	TD21-30
TRAP-22	KCNLYADSAWENVKNVIGPF		TT21-30	TD21-30
TRAP-23	ENVKNVIGPFMKAVCVEVEK		TT21-30	TD21-30
TRAP-24	MKAVCVEVEKTASCGVWDEW		TT21-30	TD21-30
TRAP-25	TASCGVWDEWSPCSVTCGKG		TT21-30	TD21-30
TRAP-26	SPCSVTCGKGTRSRKREILH		TT21-30	TD21-30
TRAP-27	TRSRKREILHEGCTSEIQEQ	TRSRKREILHEGCTSELQEQ	TT21-30	TD21-30
TRAP-28	EGCTSEIQEQCEEERCPPKW	EGCTSELQEQCEEERCLPKR	TT21-30	TD21-30
TRAP-29	CEEERCPPKWEPLDVPDEPE	CEEERCLPKREPLDVPDEPE	TT21-30	TD21-30
TRAP-30	EPLDVPDEPEDDQPRPRGDN		TT21-30	TD21-30
TRAP-31	DDQPRPRGDNSSVQKPEENI	DDQPRPRGDNFAVEKPNENI	TT31-40	TD31-40
TRAP-32	SSVQKPEENIIDNNPQEPSP	FAVEKPNENIIDNNPQEPSP	TT31-40	TD31-40
TRAP-33	IDNNPQEPSPNPEEGKDENP	IDNNPQEPSPNPEEGKGENP	TT31-40	TD31-40
TRAP-34	NPEEGKDENPNGFDLDENPE	NPEEGKGENPNGFDLDENPE	TT31-40	TD31-40
TRAP-35	NGFDLDENPENPPNPDIPEQ	NGFDLDENPENPPNPDPNP	TT31-40	TD31-40
TRAP-36	NPPNPDIPEQKPNIPEDSEK	NPPNPDPNPDPNPDPNPDPNP	TT31-40	TD31-40
TRAP-37	NONE	PPNPDPNPDPNPDIPEQKPNIP	TT31-40	TD31-40
TRAP-38	DIPEQKPNIPEDSEKEVPSD	DIPEQKPNIPEDSEKEVPSD	TT31-40	TD31-40
TRAP-39	EDSEKEVPSDVPKNPEDDRE		TT31-40	TD31-40
TRAP-40	VPKNPEDDREENFDIPKKPE		TT31-40	TD31-40
TRAP-41	ENFDIPKKPENKHDNQNQLP		TT41-50	TD41-50
TRAP-42	NKHDNQNQLPNDKSDRNIPY	NKHDNQNQLPNDKSDRYIPY	TT41-50	TD41-50
TRAP-43	NDKSDRNIPYSLPPKVLDN	NDKSDRYIPYSLAPKVLDN	TT41-50	TD41-50
TRAP-44	SPLPPKVLDNERKQSDPQSQ	SPLAPKVLDNERKQSDPQSQ	TT41-50	TD41-50
TRAP-45	ERKQSDPQSQDNNGNRHVPN		TT41-50	TD41-50
TRAP-46	DNNGNRHVPNSEDRETRPHG		TT41-50	TD41-50
TRAP-47	SEDRETRPHGRNNENRSYNR		TT41-50	TD41-50
TRAP-48	RNNENRSYNRKYNDTPKHPE		TT41-50	TD41-50
TRAP-49	KYNDTPKHPEREEHEKPDNN		TT41-50	TD41-50

TRAP-50	REEHEKPDNNKKKGESDNKY		TT41-50	TD41-50
TRAP-51	KKKGESDNKYKIAGGIAGGL		TT51-57	TT51-57
TRAP-52	KIAGGIAGGLALLACAGLAY		TT51-57	TT51-57
TRAP-53	ALLACAGLAYKFVVPGAATP		TT51-57	TT51-57
TRAP-54	KFVVPGAATPYAGEPAPFDE		TT51-57	TT51-57
TRAP-55	YAGEPAPFDETLGEEDKDLD		TT51-57	TT51-57
TRAP-56	TLGEEDKDLDEPEQFRLPEE		TT51-57	TT51-57
TRAP-57	EPEQFRLPEENEWN		TT51-57	TT51-57