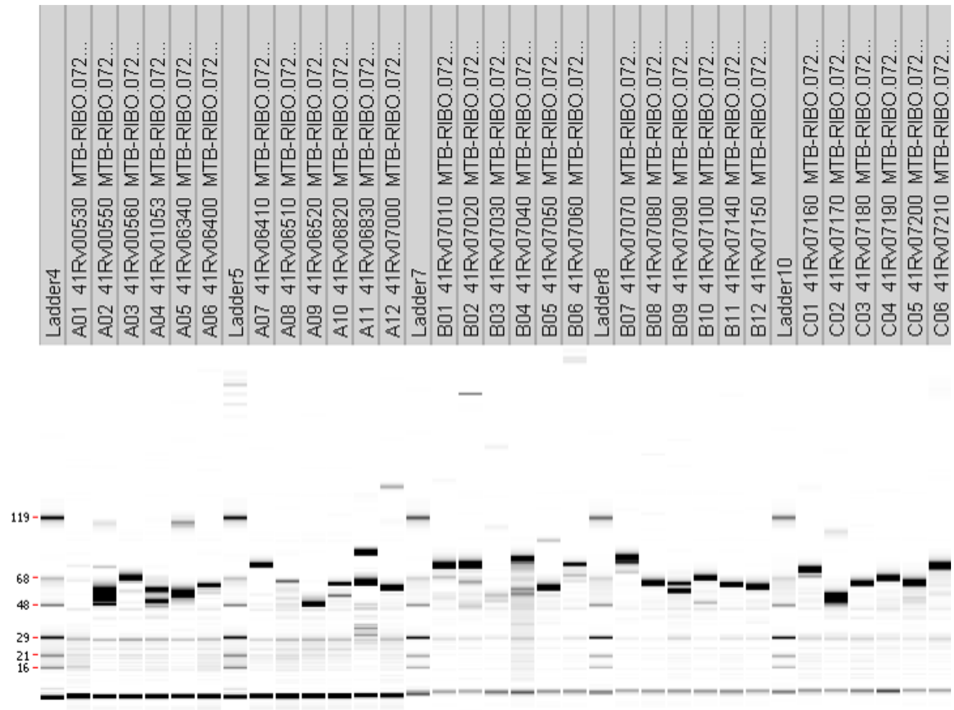
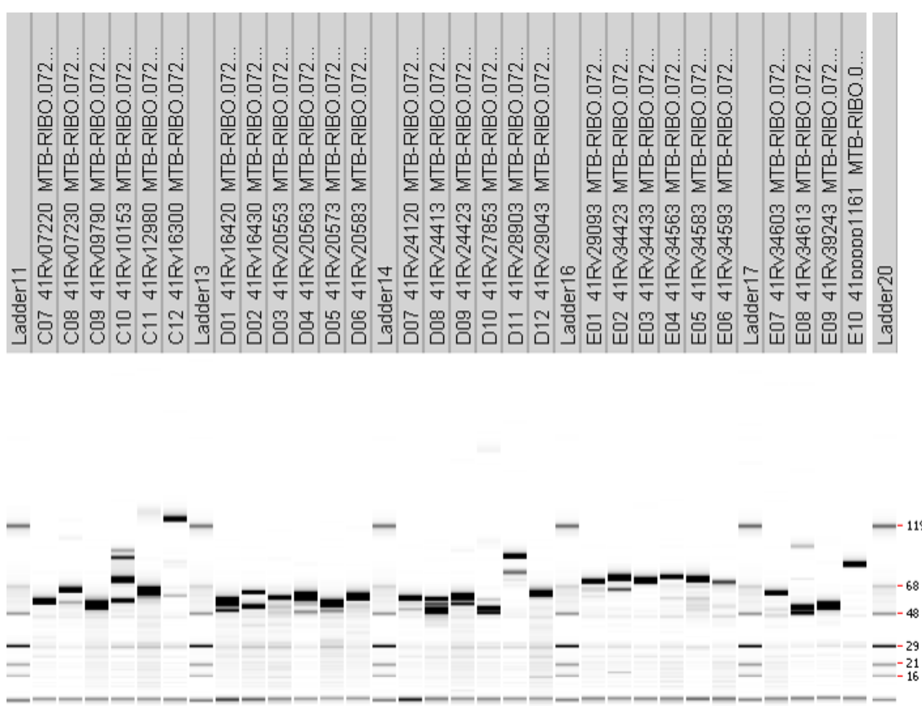
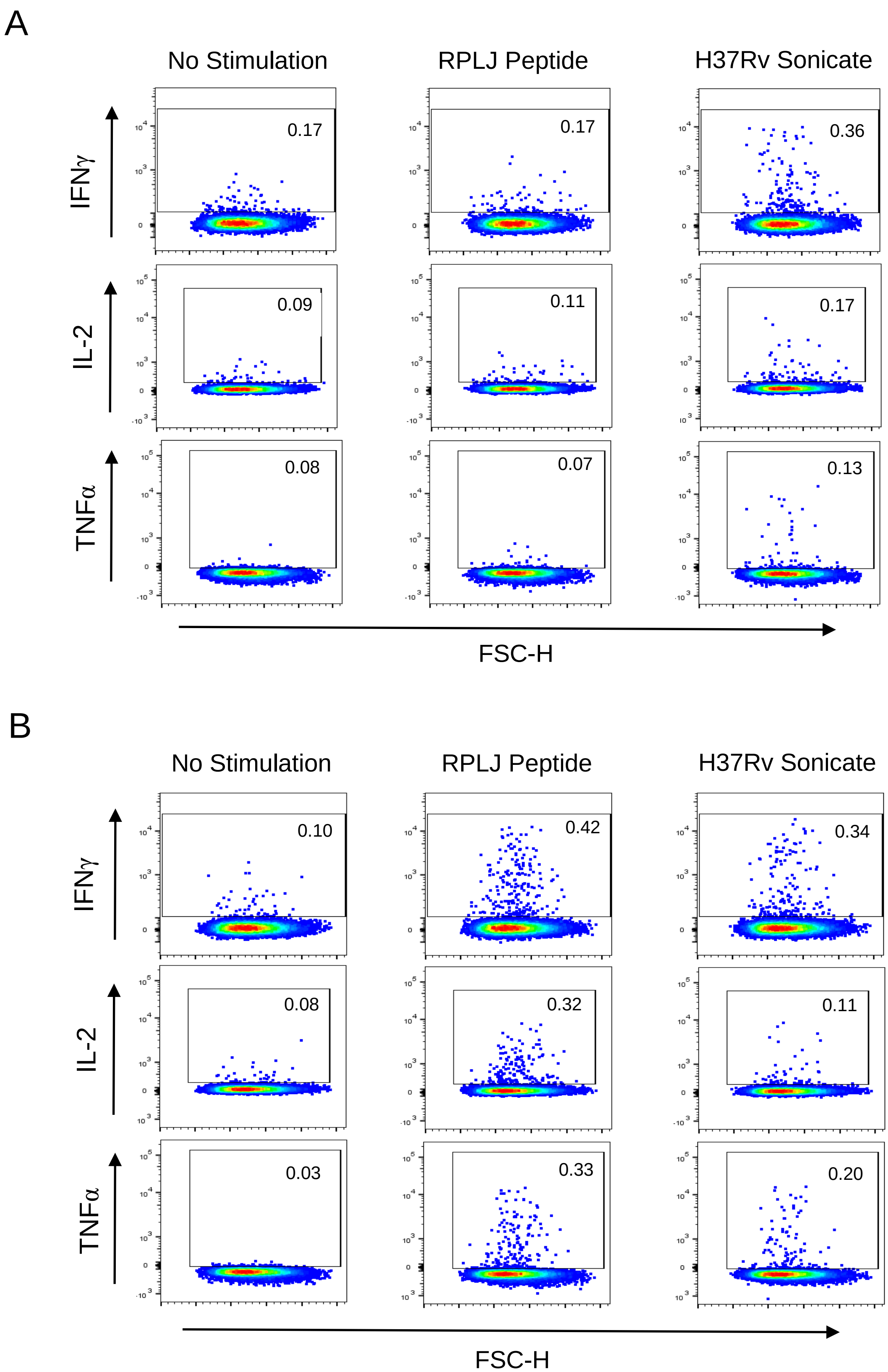
Supplemental Figure S1





Supplemental Figure S1. Caliper electrophoresis of 57 mycobacterial ribosomal proteins. Mycobacterial ribosomal proteins expressed in *E. coli* (strain BL21) and purified by affinity tag purification were loaded into a LabChipGX caliper electrophoresis analyzer (PerkinElmer). Results were analyzed against a standard protein ladder and resulting bands were assessed for both purity and molecular weight. The images shown are representative of two separate experiments and protein purifications.

Supplemental Figure S2



Supplemental Figure 2. Samples of dot plots of FACS analyses of intracellular cytokine staining. Groups of C57BL/6 mice (n = 4) were immunized with 5 x 10^6 CFU s.c. BCG only (A), or were immunized similarly with BCG followed four weeks later by two administrations of RplJ protein (25 µg) and CpG-ODN 1826 (20 µg) s.c. two weeks apart (B). Four weeks post final immunization, single cell suspensions of splenocytes were re-stimulated with $RplJ_{TB146-160}$ peptide (10 µg/ml) or H37Rv sonicate (10 µg/ml) as indicated. After 6h of re-stimulation, cells were fixed, permeabilized and stained for cytokines as described in Methods, and analyzed by FACS. Samples of dot plots from one representative mouse in each group portraying no re-stimulation, re-stimulation with RPLJ peptide, and re-stimulation with H37Rv sonicate are shown.

Supplemental Table S1

Rv #	RPS/L	F-Primer	R-Primer	MW
Rv0053	rpsF	TACTTCCAATCCAATGCCCGTCCATACGAAATCATGGTCATC	TTATCCACTTCCAATGTTAGTGCTTGTCGGTGCGCATTAC	54.72
Rv0055	rpsR1	TACTTCCAATCCAATGCCGCCAAGTCCAGCAAGCGGC	TTATCCACTTCCAATGTTACCGCACCGAAGACGTAAAGG	53.33
Rv0056	rplI	TACTTCCAATCCAATGCCAAGCTCATTCTCACGGCCGATG	TTATCCACTTCCAATGTTAGCTCTGCGCCACGACGTC	59.95
Rv0105	rpmB1	TACTTCCAATCCAATGCCTCCGCCCGCTGCCAAATCAC	TTATCCACTTCCAATGTTACAGGATCGCCGCCGTTCG	54.31
Rv0634	rpmG2	TACTTCCAATCCAATGCCGCTTCCAGTACCGACGTGC	TTATCCACTTCCAATGTTACCGCGTCTCGCGGTGC	50.28
Rv0640	rplK	TACTTCCAATCCAATGCCGCCCCGAAGAAGAAGGTCG	TTATCCACTTCCAATGTTATTCGACGGTGATGCCCATCG	58.79
Rv0641	rplA	TACTTCCAATCCAATGCCAGCAAGACCAGCAAGGCATATCG	TTATCCACTTCCAATGTTACTCCCCCGCGAAGTTGCG	68.54
Rv0651	rplJ	TACTTCCAATCCAATGCCGCCAGGGCTGACAAGGCC	TTATCCACTTCCAATGTTACTCGGCTGAGTCTGGGCC	62.26
Rv0652	rplL	TACTTCCAATCCAATGCCGCAAAGCTCTCCACCGACG	TTATCCACTTCCAATGTTACTTGACGGTGACGGTGGCG	57.22
Rv0682	rpsL	TACTTCCAATCCAATGCCCCAACCATCCAGCAGCTGG	TTATCCACTTCCAATGTTAGCCCTTCTCCTTCTTAGCGC	57.63
Rv0683	rpsG	TACTTCCAATCCAATGCCCCACGCAAGGGGCCCG	TTATCCACTTCCAATGTTACCAGCGATAATGCGCAAAGGC	61.38
Rv0700	rpsJ	TACTTCCAATCCAATGCCGCGGGACAGAAGATCCGCATC	TTATCCACTTCCAATGTTACTGGATGTTGACGTCGACGC	55.21
Rv0701	rplC	TACTTCCAATCCAATGCCGCACGAAAGGGCATTCTCGG	TTATCCACTTCCAATGTTACTTCTCACCTCGTTTGATCGCAC	66.88
Rv0702	rplD	TACTTCCAATCCAATGCCGCTGCGCAAGAGCAGAAGAC	TTATCCACTTCCAATGTTAGGCCGAAACCTCCTCGGAC	67.53
Rv0703	rplW	TACTTCCAATCCAATGCCGCGACGCTCGCTGACCC	TTATCCACTTCCAATGTTAGGCCGGTGCCCCGAAC	54.74
Rv0704	rplB	TACTTCCAATCCAATGCCGCAATTCGCAAGTACAAGCCCAC	TTATCCACTTCCAATGTTAACGCGAGTGCTTCTTGCCG	74.36
Rv0705	rpsS	TACTTCCAATCCAATGCCCCACGCAGCCTGAAGAAGG	TTATCCACTTCCAATGTTATCGCCGCTTGCTCTTTCGG	54.59
Rv0706	rplV	TACTTCCAATCCAATGCCACTGCGGCTACTAAGGCTACC	TTATCCACTTCCAATGTTAGTCTGAGCCTCCCTTCGCTG	64.17
Rv0707	rpsC	TACTTCCAATCCAATGCCGGCCAAAAGATCAATCCGCATGG	TTATCCACTTCCAATGTTAGCTCTCCGTGCTCTGCGC	73.81
Rv0708	rplP	TACTTCCAATCCAATGCCTTGATTCCCCGTAAGGTTAAACATCG	TTATCCACTTCCAATGTTAGAACTGCTCCTCTCGAGTAATAATG	59.48
Rv0709	rpmC	TACTTCCAATCCAATGCCGCAGTGGGTGTCTCGCCG	TTATCCACTTCCAATGTTACGATTCCTTACCATCGGGCC	52.64
Rv0710	rpsQ	TACTTCCAATCCAATGCCATGGCAGAGGCTAAGACCGG	TTATCCACTTCCAATGTTACTTAGCCTTCTCGAGGATCTCG	58.66
Rv0714	rplN	TACTTCCAATCCAATGCCATTCAGCAGGAATCGCGGCTG	TTATCCACTTCCAATGTTACAACACCTCCGGGGCCAG	57.21
Rv0715	rplX	TACTTCCAATCCAATGCCAAGGTCCACAAAGGCGACACC	TTATCCACTTCCAATGTTAAATGTCCTTGCCGTTGCGCTTG	55.26
Rv0716	rplE	TACTTCCAATCCAATGCCACCACTGCACAGAAGGTTCAGC	TTATCCACTTCCAATGTTAGTTCTCCTTGAAGGGAAAGCCG	64.8
Rv0717	rpsN1	TACTTCCAATCCAATGCCGCGAAGAAGGCACTGGTCAAC	TTATCCACTTCCAATGTTACCAGCTGCTCTTCTGCACG	50.61
Rv0718	rpsH	TACTTCCAATCCAATGCCACGATGACGGACCCGATCG	TTATCCACTTCCAATGTTACCAGACATATGCGAGGACTTCG	58.2
Rv0719	rplF	TACTTCCAATCCAATGCCTCGCGTATTGGTAAGCAGCCG	TTATCCACTTCCAATGTTACTTACCTGTCTTTCCGACCTTGC	63.16
Rv0720	rplR	TACTTCCAATCCAATGCCGCGCAATCAGTTTCCGCGAC	TTATCCACTTCCAATGTTAGAAACTCAATCCGTTCTCGCGTG	56.97
Rv0721	rpsE	TACTTCCAATCCAATGCCGCGGAGCAGCCGGCC	TTATCCACTTCCAATGTTATATCGTTCTATCCGGCAAAACGC	66.67
Rv0722	rpmD	TACTTCCAATCCAATGCCTCACAGCTGAAGATCACCCAGG	TTATCCACTTCCAATGTTATGTCTTCCCTCCGGTCTGC	51.13
Rv0723	rplO	TACTTCCAATCCAATGCCACGCTCAAGCTGCATGACCTG	TTATCCACTTCCAATGTTAGAGCTCGGTGGCTGAACCG	59.32
Rv0979	rpmF	TACTTCCAATCCAATGCCGCTGTGCCCAAGCGCAGAAAG	TTATCCACTTCCAATGTTAGCGCTTATCGAAATCGATGAGGC	50.29
Rv1015	rplY	TACTTCCAATCCAATGCCGCCAAATCCGCAAGCAACCAG	TTATCCACTTCCAATGTTACTCGGACTCGCCAGCGG	66.23
Rv1298	rpmE	TACTTCCAATCCAATGCCAAATCTGACATTCATCCGGCATATGAG	TTATCCACTTCCAATGTTATTTGCCGGTTGAAACCGCCTTG	52.54
Rv1630	rpsA	TACTTCCAATCCAATGCCCCGAGTCCCACCGTCACC	TTATCCACTTCCAATGTTAAGCGCTGCCGGCGAGTTTTTC	96.99
Rv1642	rpmI	TACTTCCAATCCAATGCCCCCAAGGCCAAGACCCACAG	TTATCCACTTCCAATGTTAGCCGTTCAGCAACGACGTG	51.00
Rv1643	rplT	TACTTCCAATCCAATGCCGCACGCGTAAAGCGGGCG	TTATCCACTTCCAATGTTAGGCGGCCTCCCCGGAG	58.31
Rv2055	rpsR2	TACTTCCAATCCAATGCCGCCGCCAAATCCGCGCG	TTATCCACTTCCAATGTTATGGGCACAGTGCAGCGCG	53.48
Rv2056	rpsN2	TACTTCCAATCCAATGCCGCCAAGAAGTCCAAGATCGTCAAG	TTATCCACTTCCAATGTTACCAGCTGGCCTTCCGGAC	55.22
Rv2057	rpmG1	TACTTCCAATCCAATGCCGCGCGCACCGACATCCG	TTATCCACTTCCAATGTTAGCGTTCCTCGCGAAAGTCC	50.37
Rv2058	rpmB2	TACTTCCAATCCAATGCCTCCGCCCACTGCCAAGTCAC	TTATCCACTTCCAATGTTAGATCCGCTGCCCCTGGC	52.88
Rv2412	rpsT	TACTTCCAATCCAATGCCGCCAACATCAAGTCGCAGCAG	TTATCCACTTCCAATGTTAGAGCTTGTTGAGCGCCTGG	53.19
Rv2441	rpmA	TACTTCCAATCCAATGCCGCACACAAGAAGGGGGCTTC	TTATCCACTTCCAATGTTAGGCAGTGGTCGAACCGACG	52.75
Rv2442	rplU	TACTTCCAATCCAATGCCATGGCGACCTACGCAATCGTC	TTATCCACTTCCAATGTTATGCGATGCCGGTGACCTTC	54.93
Rv2785	rpsO	TACTTCCAATCCAATGCCGCGCTGACAGCCGAGCAAAAAAG	TTATCCACTTCCAATGTTAGCGACGCAGGCCCAGC	54.26
Rv2890	rpsB	TACTTCCAATCCAATGCCGCCGTAGTCACCATGAAGCAG	TTATCCACTTCCAATGTTAGGATGCATCTGTGGTTGGTTCG	74.88
Rv2904	rplS	TACTTCCAATCCAATGCCAACCGGCTGGACTTCGTCG	TTATCCACTTCCAATGTTAGCGCTTCTCCTTGATCTTGGC	56.80
Rv2909	rpsP	TACTTCCAATCCAATGCCGCTGTGAAGATCAAGCTCACTCG	TTATCCACTTCCAATGTTAGCTTTCCGCCGTCAGCTCG	61.22
Rv3442	rpsI	TACTTCCAATCCAATGCCACCGAAACCACCCCAGCCC	TTATCCACTTCCAATGTTAGCGCTTGCTGTACTGGGGC	60.22
Rv3443	rplM	TACTTCCAATCCAATGCCCCCACGTACGCGCCCAAG	TTATCCACTTCCAATGTTATTGCGCCACCTGCTTGAGC	60.12
Rv3456	rplQ	TACTTCCAATCCAATGCCCCCAAGCCTACCAAGGGCC	TTATCCACTTCCAATGTTAATTCTCGGGGGCCTCTGCG	63.26
Rv3458	rpsD	TACTTCCAATCCAATGCCGCTCGTTACACCGGACCCG	TTATCCACTTCCAATGTTACTTTGAGTAGTACTCGACGATCAG	67.26
Rv3459	rpsK	TACTTCCAATCCAATGCCCCACCAGCAAAAAAAGGGCCG	TTATCCACTTCCAATGTTAGACGCGCCGGCGCTTG	58.57
Rv3460	rpsM	TACTTCCAATCCAATGCCGCTCGACTCGTCGGCGTC	TTATCCACTTCCAATGTTACCTAGCCTTCTTCTTGCCTGC	58.13
Rv3461	rpmJ	TACTTCCAATCCAATGCCAAGGTAAACCCGAGCGTCAAGC	TTATCCACTTCCAATGTTAGCCCTGCCTTTGTTTGTGACG	48.13
Rv3924	rpmH	TACTTCCAATCCAATGCCACCAAGGGCAAAAGGACCTTCC	TTATCCACTTCCAATGTTAAGCACTGAGCGTGCGCCG	49.41
GST	N/A	TACTTCCAATCCAATGCCGGTCTGCTGATCGAAGGGC	TTATCCACTTCCAATGTTAACCCCTGCACCAAACCCCTTG	81.74

Supplemental Table S1. List of primers for amplification of 57 ribosomal proteins from Mtb gDNA and expected molecular weight of purified protein products. Nucleotide primers for amplification for selected mycobacterial genes from Mtb gDNA are listed. Primers were synthesized by Sigma-Aldrich at 70% purity. Expected molecular weight (MW) of the proteins from produced from the expression vector pmscg9 are shown in the column on the far right.

Supplemental Table 2

Rv0652 Top 33		
#	Residue Range	Peptide
1	39-53	PVAVAAAGAAPAGAA
2	30-44	ETFEVTAAAPVAVAA
3	34-48	VTAAAPVAVAAAGAA
4	26-40	KKFEETFEVTAAAPV
5	43-57	AAAGAAPAGAAVEAA
6	116-130	AKAKLEAAGATVTVK
7	93-107	AKDLVDGAPKPLLEK
8	47-61	AAPAGAAVEAAEEQS
9	22-36	SDFVKKFEETFEVTA

Rv2904 Top 33		
#	Peptide Name	Peptide
10	69-83	VERTFPVHSPNIDHI
11	15-29	DIPAFNPGDTINVHV
12	65-79	YGVGVERTFPVHSPN
13	73-87	FPVHSPNIDHIEVVT
14	36-50	KERLQVFKGVVIRRQ
15	61-75	RKESYGVGVERTFPV
16	45-59	VVIRRQGGGIRETFT
17	19-33	FNPGDTINVHVKVIE

Rv0707 Top 33		
#	Peptide Name	Peptide
18	210-224	GKRELAAAAPAGADR
19	256-270	GEEAAPDAAAPVEAQ
20	214-228	LAAAAPAGADRPRRE
21	234-248	RPRRSGASGTTATGT
22	206-220	DIVGGKRELAAAAPA
23	64-78	RVDIHTARPGIVIGR
24	252-266	RAAGGEEAAPDAAAP
25	125-139	NRVAFRRAMRKAIQS
26	227-241	RERPSGTRPRRSGAS
27	166-180	EFYREGRVPLHTLRA
28	160-274	APDAAAPVEAQSTES
29	247-261	GTDAGRAAGGEEAAP
30	238-252	SGASGTTATGTDAGR
31	135-149	KAIQSAMRQPNVKGI
32	182-196	IDYGLYEAKTTFGRI
33	162-176	MSRSEFYREGRVPLH
34	153-167	CSGRLGGAEMSRSEF
35	131-145	RAMRKAIQSAMRQPN
36	101-115	NILEVKNPESQAQLV
37	223-237	DRPRRERPSGTRPRR

Rv2058c Top 33		
#	Peptide Name	Peptide
38	34-48	QQRTYYLPSEGRRIR
39	21-Jul	VTGRKPGFGNTVSHS
40	38-52	YYLPSEGRRIRLRVS
41	30-44	SPNIQQRTYYLPSEG
42	23-37	RRSRRRWSPNIQQRT

Rv0640 Top 33		
#	Peptide Name	Peptide
43	26-Dec	KLQIVAGQANPAPPV
44	67-81	SFTFTLKTPPAAKLL
45	16-30	VAGQANPAPPVGPAL
46	39-53	EFCKAYNAATENQRG
47	20-34	ANPAPPVGPALGQHG
48	63-77	YEDRSFTFTLKTPPA
49	80-94	LLLKAAGVAKGSAEP
50	71-85	TLKTPPAAKLLLKAA
51	125-139	AAAKIIAGTARSMGI
52	76-90	PAAKLLLKAAGVAKG

Rv0683 Top 33		
#	Peptide Name	Peptide
53	15-Jan	MPRKGPAPKRPLVND
54	139-153	EDTHKMAEANRAFAH
55	80-94	VGGATYQVPVEVRPD
56	16-30	PVYGSQLVTQLVNKV
57	85-99	YQVPVEVRPDRSTTL
58	42175	PAPKRPLVNDPVYGS
59	122-136	NEILDASNGLGASVK
60	26-Dec	LVNDPVYGSQLVTQL
61	76-90	RSRRVGGATYQVPVE
62	89-103	VEVRPDRSTTLALRW
63	39-53	AERIVYGALEQARDK
64	61-75	TLKRALDNVKPALEV

Rv0700 Top 33		
#	Peptide Name	Peptide
65	32-46	TGASVVGPVPLPTEK
66	72-86	RLIDIIDPTPKTVDA
67	28-42	TVVRTGASVVGPVPL
68	36-50	VVGPVPLPTEKNVYC
69	24-38	KIVETVVRTGASVVG
70	76-90	IIDPTPKTVDALMRI
71	26-Dec	AYDHEAIDASARKIV
72	85-99	DALMRIDLPASVDVN

Rv0701 Top 33		
#	Peptide Name	Peptide
73	25-39	PVTVVKAGPNVVTRI
74	66-80	LTGQYTAAGVNPRRY
75	70-84	YTAAGVNPRRYLAEL
76	130-144	HGFRGQGASHGAQAV
77	126-140	TMKRHGFRGQGASHG
78	147-161	RPGSIGGCATPARVF
79	46-63	AVQLAYGEISPRKVN
80	155-169	ATPARVFKGTRMAGR
81	62-76	VNKPLTGQYTAAGVN
82	134-148	GQGASHGAQAVHRRP
83	190-204	GVLLIKGAVPGRTGG
84	21-35	NRVVPVTVVKAGPNV
85	53-67	AYGEISPRKVNKPLT
86	90-104	DAATEYQVGQELTAE
87	117-131	TSKGKGFAGTMKRHG
88	159-173	RVFKGTRMAGRMGND
89	17-31	FDESNRVVPVTVVKA

Rv0714 Top 33		
#	Peptide Name	Peptide
90	108-122	EKRFMKIISLAPEVL
91	73-87	DGSYIKFDENAAVII
92	27-41	GSSRRYAGIGDVIVA
93	41-55	ATVKDAIPGGNVKRG
94	77-91	IKFDENAAVIIKPDN
95	37-51	DVIVATVKDAIPGGN
96	52-66	VKRGDVVKAVVVRTV
97	93-107	PRGTRIFGPVGRELR
98	20-34	LCIRVLGGSSRRYAG
99	33-47	AGIGDVIVATVKDAI

Rv0682 Top 33		
#	Peptide Name	Peptide
100	24-Oct	KGRRDKISKVKTAAL
101	14-28	DKISKVKTAALKGSP
102	18-32	KVKTAALKGSPQRRG
103	30-44	RRGVCTRVYTTTPKK
104	34-48	CTRVYTTTPKKPNSA
105	38-52	YTTTPKKPNSALRKV
106	57-71	LTSQVEVTAYIPGEG
107	61-75	VEVTAYIPGEGHNLQ
108	65-79	AYIPGEGHNLQEHSM
109	90-104	LPGVRYKIIRGSLDT

Supplemental Table 2. Table of peptides included in selected immunogenic ribosomal peptide library. Peptides selected from 10 Mtb immunogenic ribosomal proteins based on strength of binding to MHCII I-A^b are listed. Peptides were synthesized as crude material (estimated 70-80% purity) by Mimotopes (Mulgrave, Victoria, Australia). Peptides were reconstituted in DMSO and used at a final concentration of 10 µg/ml.

Supplemental Table 3

Peptide #	Peptide Sequence	Protein	Peptide Start
1	FDAAIATPDQMAKVG	rplA	111
2	VTVVKAGPNVVTRIR	rplC	26
3	VAGQFAAAGVNPRRH	rplC	66
4	GFRGQGAAHGAQAVH	rplC	131
5	EALQQEFNYANVMQI	rplE	21
6	EFNYANVMQIPGVVK	rplE	26
7	GRNYLLPRGLAIVAS	rplI	26
8	GDTGKLFGSVTAADV	rplI	86
9	KAHIKSVGTHPVTVK	rplI	121
10	ADIAEQFKASTATVV	rplJ	11
11	QFKASTATVVTEYRG	rplJ	16
12	IEGLDELFAGPTAIA	rplJ	66
13	ELFAGPTAIAFVKGE	rplJ	71
14	KAAGLFNAPASQVAR	rplJ	146
15	FNAPASQVARLAAAL	rplJ	151
16	RSFTFALKTPPAAKL	rplK	66
17	PGAAAGGAAEAAEEQ	rplL	46
18	KEAKDLVDSAPKPLL	rplL	91
19	SDVVLGRLASAAATL	rplM	21
20	EKKFMKIVSLAPEVL	rplN	108
21	GSAREAITAAGGSAT	rplO	131
22	AREAITAAGGSATEL	rplO	133
23	EQRGIASGGTSVSFG	rplP	16
24	QLIAERAKAAGVETV	rplR	86
25	VFDRGGYTYGGRIAA	rplR	101
26	GYTYGGRIAALADAA	rplR	106
27	WISRINAAARANDIT	rplT	61
28	AELAVSDPAAFTALV	rplT	96
29	MSTVTEFPSATAKAR	rplV	1
30	TVTEFPSATAKARYV	rplV	3
31	KARYVRVSATKARRV	rplV	13
32	EALDILRWAPQAASE	rplV	38
33	PVAKVIASAAANAQN	rplV	53
34	PPKQKGASAASARSR	rplV	118
35	SARSRRAQGSKAAAT	rplV	128
36	RAIVKLAAGSKPIDL	rplW	81
37	MAKTANIPNKLTANV	rplY	1
38	AVLRSHGTNAILTLD	rplY	56
39	LLVVNVVEAPSAEAL	rplY	176
40	DDTLFALAPGAVEFG	rpmA	56
41	KTYYLPSEGRRIRLR	rpmB	36
42	RRAQWKAEAPGLVTV	rpmF	16
43	DIGLRGFLPASLVEM	rpsA	141
44	EDPWRHFARTHAIGQ	rpsA	281
45	QMEKFAAAEAEAANA	rpsA	431
46	AAAEAEAANAPVSNG	rpsA	436
47	AADASAEGAAAPESS	rpsB	259
48	KRELAAAAPASDRPR	rpsC	211
49	GRAATSDAPAAGTAA	rpsC	250
50	SDAPAAGTAAAAEAP	rpsC	255
51	AGTAAAAEAPAESTE	rpsC	260
52	GTAAAAEAPAESTES	rpsC	261
53	MARYTGPATRKSRRL	rpsD	1
54	VVYRAGLARTRRMAR	rpsD	96
55	KNFFRVPLIGSTITH	rpsE	94
56	ASPGTGVIAGGAARA	rpsE	124
57	GVIAGGAARAVLECA	rpsE	129
58	LPIEDVAPAGMLKAR	rpsE	184
59	RESEALAAAAAREGS	rpsE	199
60	ESEALAAAAAREGSA	rpsE	200
61	MPRKGPAPKRPLVND	rpsG	1
62	KAGFLTRDPRAIERK	rpsI	120
63	RTGASVVGPVPLPTE	rpsJ	31
64	DPQGNVIAWASSGHV	rpsK	45
65	SSGHVGFKGSRKSTP	rpsK	55
66	GFKGSRKSTPFAAQL	rpsK	60
67	RKSTPFAAQLAAENA	rpsK	65
68	RVYTTTPKKPNSALR	rpsL	36
69	SSPERRAAAVSALQR	rpsN	36
70	AQYWLGVGAQPTEPV	rpsP	56
71	GVGAQPTEPVLALLK	rpsP	61
72	AEAPAEAAEAPAEAA	rpsP	136
73	EAAEAPAEAAEAPAE	rpsP	134
74	MSKTSKAYRAAAAKV	rplA	1
75	KAYRAAAAKVDRTNL	rplA	6
76	DRTNLYTPLQAAKLA	rplA	16
77	GEKADAAVAAGADVV	rplA	81
78	GGWLEFDAAIATPDQ	rplA	106
79	MAIRKYKPTTPGRRG	rplB	1
80	LSQGDVVESGANADI	rplB	111
81	TMKRHGFRGQGASHG	rplC	126
82	RRPGSIGGCATPARV	rplC	146
83	ALNAYIAANTTTSEE	rplD	206
84	AYIAANTTTSEEVSA	rplD	209
85	GVGNYTFGLAEQAVF	rplE	131
86	MSRIGKQPIPVPAGV	rplF	1
87	GSNLEFALGYSHPVV	rplF	101
88	FALGYSHPVVIEAPE	rplF	106
89	GITFAVQAPTKFTVS	rplF	121
90	NEIKAAIEALGPIAL	rplI	66
91	AIEALGPIALPVKTS	rplI	71
92	PTAIAFVTGEPVDAA	rplJ	76
93	KGGYMDGHPLTVAEV	rplJ	106
94	LAGAMKGNLAKAAGL	rplJ	136
95	IKLQIVAGQANPAPP	rplK	11
96	VAGQANPAPPVGPAL	rplK	16
97	KKFEETFEVTAAAPV	rplL	26
98	TFEVTAAAPVAVAAA	rplL	31
99	AAAPVAVAAAGAAPA	rplL	36
100	AVAAAGAAPAGAAVE	rplL	41
101	AKAKLEAAGATVTVK	rplL	116
102	LRGKHKPTFAPNVDG	rplM	36
103	KLRVYAGPEHPHSAQ	rplM	121
104	LHDLRPARGSKIART	rplO	5
105	RVLFELSYPNEGVAR	rplP	101
106	EGVARAALTRAIHKL	rplP	111
107	NRARRVAAAQAKAKK	rplQ	126
108	AKAKKAAAMPTEESE	rplQ	136
109	LVNDLNGTTVAAASS	rplR	46
110	NGTTVAAASSIEADV	rplR	51
111	LRWAPQAASGPVAKV	rplV	46
112	QAASGPVAKVIASAA	rplV	51
113	IASAAANAQNNGGLD	rplV	61
114	VATVYADQGPTAKRI	rplV	81
115	KAASKVGATAPAKKA	rplV	140
116	VGATAPAKKAAAKAP	rplV	145
117	PAKKAAAKAPAKKAP	rplV	150
118	AAKAPAKKAPASSGV	rplV	155
119	KKTPAKKAPAKKAPA	rplV	170
120	KKAPAKKAPAKASET	rplV	175
121	KKAPAKASETSAAKG	rplV	180
122	VEKIFAVKVASVNTA	rplW	46
123	AVKVASVNTANRQGK	rplW	51
124	DYAAVLRHSGTNAVL	rplY	51
125	TAGQIALPAGVSLIS	rplY	156
126	VVNVVKAPTAEELEG	rplY	176
127	AAVEAGEAEAAGESE	rplY	201
128	GRRRAARAGSAPAHF	rpmB1	66
129	VLLDIGYKTEGVIPA	rpsA	51
130	IRDMAKVPSAIWVVD	rpsB	151
131	QELLASATASATPSA	rpsB	251
132	SATASATPSATASTT	rpsB	256
133	ALTDAPAGATEPTTD	rpsB	271
134	DIVGGKRELAAAAPA	rpsC	206
135	RRSGASGTTATGTDA	rpsC	236
136	GHFNVNGVHVNVPSY	rpsD	116
137	VLLRPASPGTGVIAG	rpsE	125
138	VVIDVKAAPATVSEL	rpsF	61
139	MTETTPAPQTPAAPA	rpsI	1
140	PAPQTPAAPAGPAQS	rpsI	6
141	PAAPAGPAQSFVLER	rpsI	11
142	GRLKVAAPKPSKLEV	rpsP	91
143	SKLEVFNAALAAADG	rpsP	101
144	FNAALAAADGGPTTE	rpsP	106
145	KKSPAKKAAKAAEPA	rpsP	126
146	KKAAKAAEPAPQPEQ	rpsP	131
147	MAEAKTGAKAAPRVA	rpsQ	1
148	TGAKAAPRVAKAAKA	rpsQ	6
149	APRVAKAAKAAPKKA	rpsQ	11
150	KAAKAAPKKAAPNDA	rpsQ	16
151	APNDAEAIGAANAAN	rpsQ	26
152	QAANKKSALAQALNK	rpsT	71
153	AANKKSALAQALNKL	rpsT	72

Supplemental Table 3. Table of peptides included in total ribosomal peptide library.

Peptides selected from all 57 mycobacterial ribosomal proteins based on strength of binding to MHCII I-A^b are listed. Peptides were synthesized as crude material (estimated 70-80% purity) on a small scale (~1 mg) by A&A labs (San Diego). Peptides were reconstituted in DMSO and used at a final concentration of 10 µg/ml per peptide.