

Supplementary Table 1 Identification of anti-adhesive activity peptides with potential binding ability to *H. pylori* by Nano LC-MS/MS

No.	Peptide Sequences	Length	Score	Mass	Uniprot number	Start position	End position	Intensity
1	FNPDLL	6	317.7	718.377	A0A0P0VIM4	231	236	5800300000
2	AFEPVRTV	8	329.8	932.520	Q09151	52	59	4914800000
3	VVNFGNL	7	280.4	762.415	Q84Q83	344	350	3203800000
4	IPIINI	6	319.4	682.450	Q6H4P7	435	440	3198300000
5	SFVPVIR	7	275.6	817.493	Q69QZ0	48	54	2035100000
6	ISSGVARQL	9	269.8	930.537	Q09151	242	250	1959100000
7	GLTGTIPGSL	10	229.0	915.515	Q69JN6	701	710	1250100000
8	LIGQF	5	244.9	577.334	Q6ZCV7	192	196	1240200000
9	VVIL	4	123.9	443.323	Q7G065	504	507	1107700000
10	IIPQHYA	7	150.9	841.457	P14323	405	411	1069300000
11	IGMF	4	72.9	483.227	P37833	352	355	1008500000
12	DEPA	4	18.9	473.188	Q7G065	176	179	981650000
13	VLAFL	5	330.8	562.360	Q6F2Z1	375	379	895400000
14	LSFRL	5	356.4	635.388	P0C434	133	137	846060000
15	VLPGVVGFK	9	233.9	915.566	Q6YZX6	242	250	832070000
16	VGPVSYL	7	213.9	734.408	Q2QLY5	156	162	767140000
17	IPQHY	5	292.1	657.336	P14323	406	410	734820000
18	TILF	4	119.6	493.302	Q67IX6	489	492	730020000
19	ISSH	4	20.3	443.225	Q0DCI1	360	363	725670000
20	KDLLF	5	265.1	677.387	A0A0P0XYN4	145	149	703000000
21	KDY	3	84.9	425.203	P28752	430	432	682220000
22	KGVII	5	179.3	571.381	Q75GX9	272	276	672820000

23	SNTPGMVY	8	313.2	868.387	P14614	99	106	660400000
24	LAPRNPGSF	9	361.2	958.511	Q69P84	17	25	583080000
25	KIIPH	5	122.8	649.403	Q5VND6	293	297	559270000
26	GGVCYW	6	176.9	741.303	Q01882	150	155	538740000
27	LEQRPRF	7	380.0	945.527	Q75GX9	315	321	538510000
28	IAFKTNPNS	9	312.5	991.521	P07730	428	436	499760000
29	SQKFPIL	7	399.7	832.493	P14323	338	344	495470000
30	SFYL	4	268.4	529.266	Q5QM84	679	682	490480000
31	EIPRS	5	225.2	601.330	Q0JA29	305	309	483950000
32	EVRMRF	6	228.1	837.440	Q10P60	143	148	482360000
33	LDVGLIR	7	388.0	785.488	Q0JGY1	146	152	479830000
34	PVLWGVPKG	9	297.0	952.562	A0A0P0W7K6	53	61	468220000
35	RITY	4	51.7	552.314	Q09151	335	338	464220000
36	VTLF	4	303.6	479.286	B7ECS8	156	159	448600000
37	VLILLLL	7	74.4	796.591	Q69JN6	839	845	427790000
38	LGLPI	5	196.1	512.344	Q0DEC8	440	444	427100000
39	NAPLAHL	7	227.5	735.415	Q0DEV5	464	470	409830000
40	LVGH	4	7.3	425.251	Q6YW46	151	154	394900000
41	LIIPQHY	7	194.9	883.504	P14323	404	410	394220000
42	SSLL	5	49.1	506.282	Q2R2D5	235	239	367210000
43	NVDLNLY	7	364.5	850.431	Q653V7	209	215	364390000
44	KADFL	5	229.6	635.340	Q6ZFZ4	888	892	356000000
45	SIYSR	5	141.2	625.330	Q2QVC1	254	258	354560000
46	AAVT	4	14.2	403.219	P37833	401	404	350380000
47	AILTPF	6	323.5	661.392	Q6T725	356	361	348150000

48	IVIF	4	232.3	491.323	Q5QM84	460	463	343890000
49	NVLLG	5	144.2	515.319	Q0DEV5	579	583	342020000
50	IPRS	4	256.6	472.288	Q69JN6	542	545	334270000
51	VIAF	4	195.0	449.276	Q948T6	132	135	323140000
52	PRAF	4	134.5	490.277	Q852L2	103	106	316130000
53	VYIIQGRG	8	306.8	905.520	P14323	105	112	314570000
54	SFTDIY	6	275.3	745.340	Q10PD0	102	107	314060000
55	FVLL	4	167.8	533.333	Q5QM84	463	466	308450000
56	FMMPL	5	293.1	638.304	Q7G065	3	7	306030000
57	GLVLPMY	7	314.5	808.427	A1YQH2	96	102	299820000
58	VLIPH	5	341.8	620.377	Q7XAM6	331	335	286960000
59	MMPL	4	199.8	533.246	Q7G065	4	7	282500000
60	AFTPRFQ	7	347.6	866.452	P14323	476	482	278940000
61	FEPIRS	6	317.5	748.399	P07730	54	59	278180000
62	HIAGKSSIF	9	357.9	959.531	P07730	440	448	274250000
63	SGTF	4	98.2	453.198	Q0J006	152	155	271810000
64	ILGAGPI	7	161.7	640.403	B9EXM2	82	88	268940000
65	DYE	3	30.7	426.151	P15280	214	216	268850000
66	KGLPI	5	142.7	569.366	Q5CCK3	490	494	266550000
67	YVGP	4	80.2	435.224	Q6YYV1	199	202	260650000
68	IMIPI	5	95.0	586.363	Q0DS44	26	30	259070000
69	SREEAQRL	8	503.5	988.517	P07730	463	470	247990000
70	EFGAFTP	7	335.2	768.356	P07730	477	483	246940000
71	LGVP	4	82.8	385.245	A0A0P0WBK1	1253	1256	244960000
72	DFEGIFR	7	304.6	883.431	Q6AVA8	676	682	244420000

73	ILPVL	5	242.1	554.391	Q7X7S8	65	69	243420000
74	VLT	3	44.4	374.229	Q0DEV5	318	320	234010000
75	VVMDIPHA	8	226.1	881.455	Q6AVA8	218	225	228130000
76	IJET	4	84.7	475.276	Q6ZYZ4	638	641	225510000
77	IKSQ	4	113.8	475.288	Q0JIR6	214	217	224710000
78	KARDFLPF	8	314.7	993.552	Q6H547	573	580	221120000
79	QLSPVL	6	135.5	656.398	Q10PD0	132	137	214190000
80	PVLLL	5	52.7	596.402	Q6Z4E4	422	426	204090000
81	IISGPVVAM	9	267.1	886.507	Q07661	65	73	201130000
82	ALKIF	5	57.3	633.397	Q5QM84	505	509	201120000
83	VGSAG	5	73.2	390.198	Q5Z7H5	658	662	198730000
84	FEVPTGWK	8	368.4	963.493	Q33AE4	396	403	198240000
85	KFGIN	5	197.0	620.340	Q01401	122	126	194300000
86	DIL	3	68.8	402.224	P30298	66	68	192350000
87	IFLSA	5	199.2	550.324	Q69TY5	505	509	189900000
88	HLAGKNSVF	9	506.8	972.526	P14323	436	444	189420000
89	PTLF	4	154.9	477.271	Q10RX7	1346	1349	186070000
90	AYGF	4	57.5	457.208	Q2QV45	237	240	185510000
91	KPKL	4	58.2	485.345	Q5VND6	356	359	184280000
92	FFDV	4	162.4	527.250	P07730	69	72	183600000
93	FVGA	4	97.7	393.213	Q0DEV5	87	90	183480000
94	NLQHTAGSF	9	497.5	974.469	Q7X7E6	140	148	183080000
95	VFAGL	5	191.6	506.297	P37833	6	10	177780000
96	FAPKLPGGL	9	317.8	899.535	Q69TY5	414	422	176120000
97	SMPMPL	6	131.1	691.315	P29835	104	109	176020000

98	FLVF	4	212.6	525.307	P28752	135	138	175240000
99	VLSPYNEF	8	313.2	968.472	Q0DJ45	43	50	174900000
100	GAPDVGHPM	9	143.0	880.398	Q0D7S0	109	117	171470000
101	SEAPL	5	128.3	516.266	Q10RX7	1241	1245	171300000
102	FDLGGGTF	8	272.5	813.378	Q6Z7B0	227	234	171210000
103	LAHLIMA	7	286.1	768.444	Q0DEV5	467	473	169810000
104	PALLM	5	135.2	586.327	Q0D8I9	613	617	169760000
105	LLPTDVV	7	181.6	756.450	Q6H6C7	266	272	166040000
106	LLVWD	5	288.5	645.361	P49027	43	47	165560000
107	SFTALY	6	270.4	743.361	A0A5S6R7U0	171	176	165060000
108	VLF	3	146.5	378.239	Q6AVA8	329	331	163060000
109	GKTGFHMGR	9	286.7	990.494	Q0DEV5	516	524	154680000
110	QLQPHLML	8	224.3	979.539	P20698	32	39	153220000
111	IFSGFGVE	8	310.0	855.425	P14323	226	233	151700000
112	IAGFF	5	238.9	554.297	Q42456	152	156	150380000
113	QLSHLIL	7	444.8	823.504	A0A0P0Y1T7	1055	1061	149880000
114	ELAT	4	49.1	433.229	A0A0P0WBK1	1363	1366	149430000
115	QSNLF	5	250.6	608.304	A0A0P0X0A0	397	401	148690000
116	LGGNL	5	91.5	473.272	A0A0P0X0A0	268	272	142120000
117	LDMF	4	290.5	525.238	Q6AVA8	212	215	141200000
118	FTHIDAL	7	280.4	816.425	Q40680	58	64	139700000
119	ATRVNLY	7	288.2	836.463	P14323	351	357	139190000
120	LAVL	4	160.9	415.292	Q6AVA8	280	283	138590000
121	LSFL	4	190.9	479.286	Q6ZFZ4	714	717	138360000
122	VVDWLAS	7	219.4	789.414	Q2QV45	290	296	135550000

123	IYLL	4	195.8	521.333	B9G2A8	2217	2220	135300000
124	IGGVCYW	7	168.6	854.387	Q8H4M4	143	149	134960000
125	VAAAT	5	61.8	432.245	A0A0P0WBK1	2311	2315	134370000
126	SIWKEADF	8	293.5	995.483	Q0J8G4	199	206	134020000
127	LLPHYSN	7	249.1	843.436	Q09151	94	100	133920000
128	VFDVI	5	245.7	592.334	A0A0P0WR49	80	84	132380000
129	FDVSI	5	84.0	580.298	Q6Z7B0	234	238	131930000
130	MLY	3	61.2	426.206	Q01401	414	416	131560000
131	PMPL	4	170.6	457.248	P29835	106	109	130860000
132	IDMGNPFL	8	320.5	906.439	Q65XV6	19	26	128740000
133	TGRERFQP	8	225.6	990.512	P29835	57	64	128060000
134	SATRVNLY	8	440.8	923.495	P14323	350	357	127660000
135	FPPF	4	55.8	557.276	Q6EUS6	239	242	125800000
136	GYTLPHAIL	9	308.6	984.551	Q75HX0	169	177	125750000
137	EVFII	5	80.0	620.365	Q8H8V7	499	503	124730000
138	VLIAL	5	190.9	528.376	Q0JA29	815	819	124700000
139	ALLLF	5	275.6	576.376	Q75HQ0	21	25	124220000
140	VSEF	4	120.2	481.229	C7J6G6	664	667	123730000
141	LAHQ	4	14.7	510.267	Q67IX6	122	125	123310000
142	SYQDISVSA	9	342.5	969.452	Q09151	488	496	122280000
143	VLLSPY	6	265.6	691.403	B9FDT1	168	173	120920000
144	ALEIF	5	193.1	592.334	Q0DS44	10	14	120850000
145	GFPTILF	7	225.0	794.445	Q67IX6	486	492	120130000
146	FDRAMQSL	8	268.5	983.462	A0A0N7KFE7	64	71	119140000
147	QDISVSA	7	395.3	719.357	Q09151	490	496	118860000

148	SVNEFL	6	191.3	708.356	A3BXL8	713	718	118520000
149	FVDVL	5	258.4	592.334	Q5N725	89	93	117060000
150	VVTFGPS	7	297.3	706.377	O64937	265	271	116770000
151	VFLMI	5	221.8	622.363	A0A0P0WBK1	881	885	115760000
152	MVDTTIL	7	208.1	792.417	P15280	271	277	115570000
153	NHMGGIY	8	173.9	890.419	Q01882	99	106	114050000
154	GVALF	5	307.6	506.297	Q67U26	520	524	113590000
155	SQAF	4	247.9	494.225	Q6ZF85	420	423	113250000
156	LSVF	4	268.6	465.271	Q6ZFZ4	2149	2152	113160000
157	ITPR	4	46.4	486.304	Q43009	333	336	112800000
158	AYLF	4	189.9	513.271	Q6AVT2	332	335	111910000
159	NFPDLI	6	112.6	718.377	Q10RX7	579	584	111160000
160	PTRFPQ	6	148.2	745.399	Q8GU83	1154	1159	110880000
161	SVFI	4	33.5	507.281	B9G2A8	1164	1167	107330000
162	KGGIF	5	329.6	563.319	A0A0P0WF95	37	41	106430000
163	SYIHVGPVL	9	424.0	984.551	A0A0N7KNU5	76	84	105520000
164	LLPHYSNG	8	211.2	900.457	Q09151	94	101	105450000
165	LIGR	4	77.6	458.309	Q6Z7B0	102	105	104600000
166	PALLI	5	140.8	568.371	Q0D8I9	33	37	103670000
167	TLRF	4	27.3	536.319	Q6YZX6	870	873	103110000
168	GFILLL	6	129.4	717.455	Q8GU83	763	768	102290000
169	VSFLPDIL	8	218.3	903.519	Q67UF5	301	308	101980000
170	GIVIL	5	228.5	514.360	A0A0P0WSV5	285	289	101190000
171	GFSPISL	7	259.6	720.393	Q7XHN4	127	133	100340000
172	TFGF	4	13.5	471.224	A0A0P0VIP0	274	277	99934000

173	SYSSIL	7	264.1	782.429	D0TZF0	791	797	98929000
174	DHLPSF	6	211.7	715.341	A0A0P0WYY7	525	530	98837000
175	PGYY	4	273.6	499.219	A0A0P0W7K6	116	119	98199000
176	IDHPSFLE	8	338.2	957.468	Q0DEV5	165	172	97881000
177	REWAPAAQ	8	233.1	928.464	Q01401	135	142	97420000
178	RVKEYLP	7	329.9	904.525	P37833	67	73	96964000
179	QILELY	6	285.7	778.435	Q2QS11	201	206	96628000
180	VGAEMAPW	8	212.4	876.392	Q0DEV5	88	95	95945000
181	FGARPVVLV	9	238.2	957.588	Q4U0D3	92	100	95091000
182	VTLGA	5	29.8	460.277	Q6I609	189	193	95030000
183	IDPLL	5	66.8	570.350	Q6ZF85	21	25	92558000
184	FQCTGTF	7	337.2	860.361	P14323	76	82	92292000
185	YPGLSN	6	280.7	650.314	P14323	486	491	92215000
186	VTDIYNS	7	408.6	811.383	Q09151	186	192	91943000
187	SIVYITQ	7	400.7	823.456	P07730	376	382	91411000
188	SVIIF	5	208.8	620.365	Q0DS44	20	24	90584000
189	IILPQLF	7	147.5	843.534	A0A0P0WYY7	286	292	90349000
190	QDIARF	7	406.6	862.478	A0A0P0W399	277	283	90035000
191	FGPNVNPW	8	227.6	930.447	P14614	27	34	88529000
192	VPVHT	5	49.0	552.314	Q6Z4N6	190	194	86354000
193	VYFPYTE	7	124.4	918.424	P30298	527	533	86032000
194	VFGSVI	6	299.0	621.361	Q69XA0	414	419	85246000
195	SGPGI	5	108.4	472.240	P0C540	366	370	85130000
196	LLLPHY	6	242.2	797.456	P07730	94	99	84939000
197	SLDT	4	185.7	477.219	Q01401	434	437	84757000

198	PTDVL	5	333.9	544.298	P07730	452	456	83410000
199	FVFDVNNN	8	280.1	968.447	Q6ESW6	183	190	83245000
200	IFVAL	5	269.3	562.360	Q0DJS1	597	601	83144000
201	SLVPY	5	168.7	578.318	Q10MT7	68	72	82758000
202	GFPTIL	6	332.9	647.376	Q67IX6	486	491	78171000
203	AFNVPS	6	226.4	634.320	Q0DJ45	123	128	77515000
204	GVPF	4	137.2	419.229	P49027	65	68	77048000
205	MQYFPAT	7	174.4	857.386	Q2R363	28	34	77038000
206	ALATF	5	98.6	564.303	Q10RX7	566	570	76959000
207	KAILI	5	221.6	599.413	Q6H501	505	509	76832000
208	TVVIL	5	148.6	544.371	Q0JKD0	1520	1524	76570000
209	SPPV	4	61.6	441.234	B9G2A8	1512	1515	76405000
210	IAFIG	5	241.1	520.313	Q0DEV5	403	407	74787000
211	HFSPL	5	338.9	600.314	A0A0P0W399	15	19	74614000
212	IYHLPSPS	8	372.7	913.478	Q6H4L2	337	344	74278000
213	EVWDY	5	171.1	711.298	Q6H4P7	637	641	74176000
214	PRVF	4	89.5	518.309	A7LFZ6	187	190	73658000
215	LENPSFRP	8	315.1	959.495	A0A0P0W7K6	409	416	73551000
216	FSTEL	5	329.5	596.293	P07730	231	235	73514000
217	SFTSG	5	141.1	498.220	Q6Z673	672	676	73501000
218	VPAIVF	6	318.7	645.397	Q5N725	259	264	72510000
219	VAFL	4	235.7	449.276	Q5QM84	217	220	72296000
220	GGGAGTRLYP	10	389.4	948.490	P15280	90	99	71850000
221	YGLPGIIG	8	253.7	789.451	Q5W6W7	28	35	71486000
222	SFFSAF	6	356.1	705.324	Q852L2	193	198	71325000

223	LTVIF	5	302.0	592.371	Q7XS44	295	299	71007000
224	PSFHF	5	343.3	634.298	A0A0P0W7K6	2	6	70831000
225	SLLAPF	6	195.1	647.376	Q6EPC5	347	352	70199000
226	LWDSRL	6	261.1	789.425	Q01401	373	378	69452000
227	ITITL	5	319.9	560.365	Q8W3F9	944	948	69401000
228	IVVI	4	112.4	443.323	Q6AVA8	556	559	69256000
229	LFDKLF	6	334.5	782.445	Q5VRX8	713	718	69166000
230	VERE	4	257.9	532.273	Q69TY5	1129	1132	68747000
231	LAPLF	5	178.8	560.344	Q6K508	17	21	68689000
232	PITFPG	6	316.1	631.345	Q7XTY1	169	174	68411000
233	VIAL	4	113.0	415.292	P07730	163	166	66491000
234	GVGILGI	7	323.3	628.403	Q6K215	81	87	66444000
235	TLET	4	74.0	463.240	Q69JN6	527	530	66360000
236	FDYILTQ	7	350.1	899.451	Q65XK0	514	520	66353000
237	SGTLGDIWE	9	231.8	977.458	Q65XK0	162	170	66232000
238	LYVDRL	6	244.4	778.446	Q10PB3	123	128	66226000
239	DAFLF	5	117.9	612.303	A0A0P0WF95	586	590	66177000
240	ETFCSI	6	208.6	756.323	Q7XAM6	1084	1089	66035000
241	QFGDLY	6	220.7	742.341	Q0DJ45	105	110	65527000
242	TAYR	4	112.1	552.278	A0A0P0VUB4	93	96	65175000
243	KIQVGVF	7	345.8	790.482	Q6Z2Z4	214	220	65040000
244	FDRLQA	6	299.3	749.394	P14323	47	52	64508000
245	FFLA	4	156.0	497.276	Q09151	203	206	64212000
246	QCSIF	5	333.4	654.292	P29835	177	181	64171000
247	PAIF	4	258.1	447.260	Q69TY5	467	470	63786000

248	IGAGFGHFA	9	261.9	876.436	Q948T6	90	98	63052000
249	GVTAT	5	67.2	448.240	Q6YZX6	258	262	62762000
250	EESMPMPL	8	279.1	933.406	P29835	102	109	62761000
251	QGSLLL	6	295.1	630.382	Q852K0	431	436	62749000
252	LLFIPN	6	309.9	716.434	Q8HCP7	26	31	62511000
253	LVEGPFL	7	270.3	774.440	Q10LP5	62	68	61988000
254	VFIL	5	223.2	604.407	Q6F2Z1	279	283	61783000
255	LLPGDL	6	234.2	627.371	Q2QXM4	179	184	61370000
256	KYSF	4	77.9	544.277	Q6H501	35	38	61322000
257	VFDYGNL	7	263.2	827.393	Q0JKM8	508	514	61253000
258	PHYSNGATL	9	453.4	959.458	Q09151	96	104	60891000
259	NNETILVF	8	288.0	949.499	Q2QV45	244	251	60878000
260	NSQKFPIL	8	247.6	946.536	P14323	337	344	60588000
261	KGGFY	5	115.8	613.298	Q6YYR2	75	79	60358000
262	PIPSI	5	38.4	526.324	I1Z695	297	301	60107000
263	VLQIL	5	189.1	585.397	Q2QS11	199	203	59749000
264	FFDVD	5	207.7	642.277	A0A0P0YCJ3	62	66	59601000
265	IFRALPND	8	251.9	945.515	P07728	447	454	59472000
266	LTPW	4	156.4	516.282	A0A0P0WGH1	941	944	58492000
267	PVVGI	5	47.5	484.313	B9G2A8	1954	1958	58444000
268	SVGF	4	84.4	409.208	A3BXL8	419	422	58441000
269	GGRGL	5	68.7	459.267	Q69TY5	1234	1238	58421000
270	LDGISPFG	8	307.2	805.409	Q10P60	82	89	58347000
271	LEFPLNL	7	222.9	845.477	A0A0P0WA63	42	48	58339000
272	SFFDAN	6	270.4	700.294	Q7G065	354	359	58228000

273	GVGLIG	6	155.9	515.319	Q5ZBN0	81	86	57119000
274	SARSL	5	10.8	533.304	Q0D8I9	1005	1009	56766000
275	IGFSL	5	242.7	536.308	P0DKG9	162	166	56746000
276	SNSFDVFI	8	288.9	970.452	Q6ZHC3	461	468	56710000
277	AFTPRFQQ	8	255.7	994.511	P14323	476	483	56533000
278	LFLVL	5	98.5	604.407	Q6K3R5	80	84	56420000
279	SFGTN	5	100.7	525.230	Q6AVA8	840	844	56073000
280	IVLLQ	5	358.7	585.397	Q8H3P9	37	41	56061000
281	LVPVL	5	153.1	540.376	Q0DEC8	283	287	55535000
282	QDRFS	5	313.2	652.305	C7J6N6	395	399	55481000
283	LLVPRY	6	146.8	760.472	P14323	93	98	55046000
284	LGTIPMVF	8	216.2	877.485	Q43009	275	282	54944000