

Alignment position	Yeast EF-1alpha residues	Delta-SR (Type I FD sites are shown in red)	Type II FD sites	Putative binding sites			Overlap between the putative binding sites and those with Type I FD sites	Overlap between the putative binding sites and those with Type II FD sites
				EF-1beta	aa-tRNA	GD(T)P		
	2	G						
	3	K						
	4	E						
	5	K						
	6	S						
	7	H						
	8	I						
	9	N						
	10	V						
	11	V						
	12	V						
	13	I						
	14	G						
	15	H						
	16	V				X		
	17	D				X		
	18	S						
	19	G				X		
	20	K						
1	21	S	-0.015177			X		
2	22	T	-0.027513			X		
3	23	T	0.086173					
4	24	T	-0.027513					
5	25	G	-0.107283					
6	26	H	-0.598381					
7	27	L	-0.047132					
8	28	I	-0.676279					
9	29	Y	-0.122331	+				
10	30	K	-0.025046	+				
11	31	C	3.227086	+				
12	32	G	-0.107283					
13	33	G	-0.61297					
14	34	I	-0.552964					
15	35	D	-0.644147					
16	36	K	0.813447					
17	37	R	-0.071878					
18	38	T	0.4419					
19	39	I	-1.108522					
20	40	E	-0.568921					
21	41	K	0.374332					
22	42	F	1.03196					
23	43	E	-0.636316					
24	44	K	-0.888453					
25	45	E	-0.467679					
26	46	A	-0.024159					
27	47	A	0.259676					
28	48	E	-0.921854					
29	49	L	0.510244					
30	50	G	-0.576983					
31	51	K	-0.089173					
32	52	G	0.306168					
33	53	S	-0.015177					
34	54	F	-0.12264					
35	55	K	-0.024731	+				
36	56	Y	-0.122331	+				
37	57	A	-0.028244					
38	58	W	0.466597					
39	59	V	-0.617195					
40	60	L	0.949555					
41	61	D	-0.024358					
42	62	K	0.151256					
43	63	L	-0.535457			X		
44	64	K	-0.089173		X	X		
45	65	A	-0.019388			X		
46	66	E	-0.028518			X		
47	67	R	-0.089891		X			
48	68	E	-0.028518		X			
49	69	R	-0.071878		X			
50	70	G	-0.045586					
51	71	I	-0.05593	+				
52	72	T	-0.027513		X			
53	73	I	-0.029304		X			
54	74	D	-0.663211			X		
55	75	I	-0.167362	+	X	X		
56	76	A	0.895891					X
57	77	L	-0.015275	+	X			X
58	78	W	-0.032343	+	X	X		X
59	79	K	0.083933					
60	80	F	-0.12264					
61	81	E	-0.759407					
62	82	T	0.399523					
63	83	P	0.722365					
64	84	K	-2.123024					
65	85	Y	-0.258644					
66	86	Q	3.718334	+				
67	87	V	2.505348	+				
68	88	T	-0.027513					
69	89	V	-0.44818					
70	90	I	-0.029304		X			
71	91	D	-0.024358		X			
72	92	A	-0.028244					

73	93	P	-0.085116		X	
74	94	G	-0.107283			
75	95	H	-0.068574		X	
76	96	R	-0.47602		X	
77	97	D	-0.024358		X	X
78	98	F	-0.12264		X	X
79	99	I	-0.029304			
80	100	K	-0.089173		X	X
81	101	N	-0.008436		X	X
82	102	M	-0.029376			
83	103	I	-0.029304			
84	104	T	-0.630731			
85	105	G	-0.107283			
86	106	T	-0.028244	+		
87	107	S	-0.651219			
88	108	Q	-0.030721			
89	109	A	-0.028244			
90	110	D	-0.024358			
91	111	C	3.450082	+		
92	112	A	-0.524857			
93	113	I	0.7786			
94	114	L	-0.436436			
95	115	I	0.983314			
96	116	I	0.911959			
97	117	A	0.875959			
98	118	G	0.527254			
99	119	G	2.736498			
100	120	V	1.054641			
101	121	G	-0.075592			
	122	E				
	123	F				
	124	E				
	125	A				
	126	G				
	127	I				
	128	S				
	129	K				
	130	D				
	131	G				
102	132	Q	-0.030721			
103	133	T	-0.50114			
104	134	R	0.136162			
105	135	E	-0.622399			
106	136	H	-0.068574			
107	137	A	-0.506217			
108	138	L	-1.003494			
109	139	L	-0.127859			
110	140	A	-0.634227			
111	141	F	3.334171			
112	142	T	-0.11495	+		
113	143	L	-0.056631			
114	144	G	-0.107283			
115	145	V	-0.476134			
116	146	R	0.388526			
117	147	Q	-0.022147			
118	148	L	-0.487633			
119	149	I	0.121764			
120	150	V	-0.362902			
121	151	A	2.134926			
122	152	V	2.076813			
123	153	N	-0.008436			X
124	154	K	-0.089173			X
125	155	M	0.057626			
126	156	D	-0.024358			X
	157	S				
	158	V				
127	159	K	0.276295			
128	160	W	0.789516			
129	161	D	-4.127403			
130	162	E	0.142353			
131	163	S	0.894982			
132	164	R	-0.071878			
133	165	F	0.764791			
134	166	Q	0.328234			
135	167	E	-0.023161			
136	168	I	-0.630431			
137	169	V	1.236754			
138	170	K	0.261386			
139	171	E	-0.624229			
140	172	T	1.064134	+		
141	173	S	0.222595			
142	174	N	0.562053	+		
143	175	F	3.475276	+		
144	176	I	0.805157			
145	177	K	-1.905324			
146	178	K	-0.333202			
147	179	V	0.156665			
148	180	G	-0.107283			
149	181	Y	0.810746			
	182	N				
	183	P				
	184	K				
	185	T				
150	186	V	0.518694			
151	187	P	3.663507	+		
152	188	F	0.436446			
153	189	V	0.021707			
154	190	P	-0.087824			
155	191	I	0.056016			

156	192	S	-0.015177		X		X	
157	193	G	-0.107283					
158	194	W	1.172092		X		X	
159	195	N	0.370351					
160	196	G	-0.107283					
161	197	D	-0.024358					
162	198	N	-0.008436					
163	199	M	0.455771					
	200	I						
	201	E						
	202	A						
	203	T						
	204	T						
	205	N						
	206	A						
164	207	P	0.064077					
165	208	W	-0.165224					
166	209	Y	-3.268376					
167	210	K	-2.95066					
168	211	G	-0.860853					
	212	W						
	213	E						
	214	K						
	215	E						
	216	T						
	217	K						
	218	A						
	219	G						
	220	V						
	221	V						
	222	K						
	223	G						
169	224	K	0.171215					
170	225	T	0.267698					
171	226	L	-0.595295					
172	227	L	0.080762	+				
173	228	E	0.555581					
174	229	A	-0.577716					
175	230	I	0.21366					
176	231	D	-0.644788					
177	232	A	0.286355					
178	233	I	0.289824					
179	234	E	0.388698					
180	235	Q	0.214155					
181	236	P	-0.611291					
182	237	S	0.195509					
183	238	R	-0.071878					
184	239	P	-1.524781	+				
185	240	T	0.274143					
186	241	D	-0.679769					
187	242	K	-0.61355					
188	243	P	-0.461746					
189	244	L	-0.652366					
190	245	R	-0.071878					
191	246	L	-0.667207					
192	247	P	-0.085116					
193	248	L	-0.45862					
194	249	Q	-0.01352	+	X		X	X
195	250	D	-0.225391					
196	251	V	-0.631808					
	252	Y			X		X	
197	253	K	-0.089175		X		X	
198	254	I	-0.620069		X		X	X
	255	G						
	256	G						
199	257	I	-0.486676		X		X	
200	258	G	-0.107283					
201	259	T	-0.624373					
202	260	V	-0.05815		X		X	
203	261	P	-0.605771					
204	262	V	-0.49633				X	
205	263	G	-0.107283					
206	264	R	-0.071878					
207	265	V	-0.541548					
208	266	E	-0.028518					
209	267	T	0.021224					
210	268	G	-0.107283					
211	269	V	-1.115246					
212	270	I	0.510834					
213	271	K	0.418697					
214	272	P	-0.022186					
215	273	G	-1.560538					
216	274	M	-1.714787					
217	275	V	0.968933					
218	276	V	0.006051					
219	277	T	0.179155					
220	278	F	-0.6328					
221	279	A	-1.865229					
222	280	P	-0.611291					
223	281	A	3.704163	+				
224	282	G	0.503403					
225	283	V	3.647831	+				
226	284	T	0.248187					
227	285	T	-0.667261					
228	286	E	1.192974					
	287	V						
	288	K						
	289	S			X		X	
	290	V					X	

291	E			X		X	
292	M					X	
293	H			X		X	
294	H			X		X	
295	E						
296	Q						
297	L						
298	E						
229	299	Q	-4.705964				
230	300	G	-0.019048				
231	301	V	1.149925				
232	302	P	-0.648355				
233	303	G	-0.107283				
234	304	D	-0.007498				
235	305	N	-0.008436	X		X	
236	306	V	0.427853			X	
237	307	G	-0.107283			X	
238	308	F	-0.669027	X		X	
239	309	N	-0.652586	X		X	X
240	310	V	0.089824				
241	311	K	-0.082261				
242	312	N	-0.214121				
243	313	V	0.399429				
244	314	S	-0.665816				
245	315	V	0.721849			X	
246	316	K	-0.426612				
247	317	E	0.470513				
248	318	I	1.024085				
249	319	R	1.212496				
250	320	R	-1.505677	X		X	
251	321	G	-0.107283				
252	322	N	3.569661				
253	323	V	-0.05815				
254	324	C	1.009454				
255	325	G	0.090486	+			
256	326	D	-0.909612	+			
257	327	A	0.406681				
258	328	K	-0.126022				
259	329	N	0.991661	+			
260	330	D	-2.244403				
261	331	P	-0.540567				
262	332	P	-1.283243				
333	K						
334	G						
335	C						
336	A						
263	337	S	1.03916				
264	338	F	-0.12264				
265	339	N	1.517085				
266	340	A	-0.502112				
267	341	T	-0.232803				
268	342	V	-0.52675				
269	343	I	-0.621645				
270	344	V	0.297644				
271	345	L	0.27731				
272	346	N	-0.569129				
273	347	H	-0.642506				
274	348	P	-0.085116				
275	349	G	-0.42456				
276	350	Q	0.526973				
277	351	I	-0.681988				
278	352	S	3.431352	+			
279	353	A	-2.932843				
280	354	G	-0.056817			X	
281	355	Y	-0.124444			X	
282	356	S	0.568355			X	X
283	357	P	-0.085116			X	
284	358	V	-0.480202				
285	359	L	0.316934			X	X
286	360	D	-0.640615	+	X	X	X
287	361	C	-0.016896	+		X	X
288	362	H	-0.071791	+		X	X
289	363	T	-0.660148		X	X	X
290	364	A	0.212576				
291	365	H	-0.595638		X	X	X
292	366	I	-0.889554				
293	367	A	-0.506449			X	X
294	368	C	1.912773				
295	369	R	-0.015582				
296	370	F	-0.977885				
297	371	D	3.408905	+			
372	E						
373	L						
374	L					X	
375	E						
376	K						
377	N						
378	D						
379	R						
380	R						
381	S						
382	G						
383	K						
384	K						
385	L						
386	E						
387	D						
298	388	H	0.249567				
299	389	P	-0.467942				

300	390	K	-0.045764				
301	391	F	0.882069				
302	392	L	1.004957				
303	393	K	0.274305				
304	394	S	0.424135				
305	395	G	-0.346981				
306	396	D	-0.499211				
307	397	A	-0.38534				
308	398	A	1.122003	+			
309	399	L	0.200305				
310	400	V	-1.146828				
311	401	K	1.224005				
312	402	F	0.699311				
313	403	V	0.50987				
314	404	P	-0.50339				
315	405	S	0.337358			X	X
316	406	K	-0.623663			X	
317	407	P	-0.378009				
318	408	M	-0.533137				
319	409	C	0.473041				
320	410	V	-0.702978				
321	411	E	-0.63531				
322	412	A	0.314541				
323	413	F	-0.256736				
324	414	S	0.73866				
325	415	E	0.327665				
326	416	Y	-0.598076				
327	417	P	0.221699				
328	418	P	-0.778825				
329	419	L	-0.584079				
330	420	G	-0.610406				
331	421	R	-0.574403				
332	422	F	-0.656284				
333	423	A	-0.623721				
334	424	V	-0.909174				X
335	425	R	-0.710177		X		X
	426	D				X	
	427	M			X	X	
	428	R				X	
	429	Q					
	430	T					
	431	V					
	432	A					
	433	V					
	434	G					
	435	V					
	436	I					
	437	K					
	438	S					
	439	V					
	440	D					
	441	K					