

N49P7 UCA	Q			S			A			L			T			Q			P			R			S			V			S			G			S			P			G		
	1			2			3			4			5			6			7			8			9			10			11			12			13			14			15		
	C	A	G	T	C	T	G	C	C	C	T	G	A	C	T	C	A	G	C	C	T	C	G	C	T	C	A	G	T	G	T	C	C	G	G	G	T	C	T	C	C	T	G	G	A
	N/A	N/A	0.82	0.35	0.22	0.89	0.16	1.33	0.10	0.22	0.38	0.08	0.79	0.44	0.45	0.35	1.05	0.21	0.93	0.13	0.32	0.33	2.31	0.52	0.29	0.35	0.83	0.87	0.56	0.34	0.56	0.10	0.17	0.06	0.58	0.17	0.85	0.24	0.66	0.31	0.39	1.04	0.38	0.17	0.45
N49P7	Q			S			A			L			T			Q			P			R			S			V			S			A			S			P			G		
	1			2			3			4			5			6			7			8			9			10			11			12			13			14			15		
	C	A	G	T	C	T	G	C	C	C	T	G	A	C	T	C	A	G	C	C	T	C	G	C	T	C	A	G	T	G	T	C	C	G	C	A	T	C	T	C	C	T	G	G	G
	N/A	N/A	0.82	0.35	0.22	0.89	0.16	1.33	0.10	0.22	0.38	0.08	0.79	0.44	0.45	0.35	1.05	0.21	0.93	0.13	0.32	0.33	2.31	0.52	0.29	0.35	0.83	0.87	0.56	0.34	0.56	0.10	0.29	3.07	0.64	0.85	0.56	0.84	0.66	0.31	0.39	1.04	0.18	0.16	9.28
	0.66591			0.88381			0.75364			0.90266			0.80011			0.77145			0.81338			0.62428			0.91530			0.76705			0.88295			0.01587			0.81964			0.87461			0.91071		



N49P7 UCA	Q			S			V			T			I			S			C			T			G			T			S			S			D			V			G		
	16			17			18			19			20			21			22			23			24			25			26			27			28			29			30		
	C 0.15	A 0.83	G 0.82	T 0.63	C 0.13	A 0.83	G 0.82	T 0.63	C 0.16	A 0.86	C 0.47	C 0.27	A 1.31	T 0.56	C 0.84	T 0.66	C 0.31	C 0.39	T 0.25	G 1.27	C 0.94	A 1.58	C 0.84	T 0.35	G 0.38	G 0.49	A 0.38	A 1.33	C 2.44	C 0.56	A 0.72	G 1.89	C 4.23	A 1.38	G 0.87	T 0.49	G 1.34	A 0.51	T 3.16	G 1.91	T 0.52	T 0.34	G 0.37	G 0.99	T 0.78
N49P7	Q			S			V			T			I			S			C			T			G			T			-			-			-			-			-		
	16			17			18			19			20			21			22			23			24			25			26			27			28			29			30		
	C 0.26	A 1.38	G 0.82	T 0.68	C 0.10	C 0.52	G 0.27	T 0.51	C 0.16	A 0.86	C 0.47	C 0.27	A 1.01	T 1.01	T 0.90	T 0.37	C 1.63	C 0.39	T 0.25	G 1.27	C 0.94	A 1.58	C 0.84	T 0.35	G 0.38	G 0.49	A 0.38	A 1.33	C 2.13	C 0.51	- N/A	- N/A	- N/A	- N/A	- N/A	- N/A	- N/A	- N/A	- N/A	- N/A	- N/A	- N/A	- N/A		
	0.76483			0.88017			0.77268			0.77441			0.64842			0.83258			0.72674			0.65235			0.85240			0.50926			N/A			N/A			N/A			N/A			N/A		

N49P7 UCA	G			Y			N			Y			V			S			W			Y			Q			Q			H			P			G			K			A		
	31			32			33			34			35			36			37			38			39			40			41			42			43			44			45		
	G 0.64	G 1.30	T 0.78	T 1.21	A 3.39	T 0.96	A 1.68	A 1.51	C 1.73	T 0.89	A 2.46	T 0.44	G 0.40	T 0.48	C 0.24	T 0.66	C 0.31	C 0.39	T 1.04	G 0.30	G 3.41	T 2.87	A 1.48	C 1.74	C 0.47	A 0.57	A 2.18	C 1.19	G 0.77	G 1.89	C 3.96	A 0.77	C 0.20	C 0.51	C 0.18	A 0.55	G 0.09	G 0.28	C 0.13	A 0.49	A 1.83	A 1.51	G 0.16	A 4.30	C 0.10
N49P7	-			H			N			L			V			S			W			C			Q			H			Q			P			G			R			A		
	31			32			33			34			35			36			37			38			39			40			41			42			43			44			45		
	- N/A	- N/A	- N/A	C 0.14	A 1.02	C 0.36	A 1.21	A 2.14	T 1.35	T 0.82	A 0.61	G 0.37	G 0.40	T 0.85	C 0.24	T 0.32	C 0.28	C 0.93	T 0.62	G 0.37	G 0.99	T 0.51	G 0.34	T 0.53	C 0.14	A 0.72	A 2.18	C 1.08	G 0.65	T 0.45	C 0.73	A 1.05	G 0.21	C 1.79	C 0.29	A 0.55	G 0.09	G 0.28	C 0.26	A 0.58	G 0.44	A 0.31	G 0.75	A 4.30	C 0.10
N/A			0.08161			0.48085			0.01011			0.84925			0.83521			0.64740			0.10077			0.71701			0.08024			0.01215			0.87709			0.90695			0.10789			0.47538			



N49P7 UCA	P			K			L			M			I			Y			D			V			S			K			R			P			S			G			V		
	46			47			48			49			50			51			52			53			54			55			56			57			58			59			60		
	C0.08	C0.18	C0.17	A0.84	A1.78	A0.66	C2.33	T0.45	C0.32	A0.95	I1.37	G1.66	A0.72	I1.34	T0.58	T1.71	A2.59	T0.41	G1.66	A0.51	C3.16	G0.40	T0.53	C0.13	A0.83	A4.19	G0.54	A1.77	I1.22	A0.67	C2.53	G0.28	G0.75	C0.15	C0.10	C0.47	T0.41	C0.35	A0.67	G0.08	G0.13	G0.48	G0.17	T0.40	C0.37
N49P7	P			K			L			L			I			Y			D			F			N			K			R			P			S			G			V		
	46			47			48			49			50			51			52			53			54			55			56			57			58			59			60		
	C0.08	C0.18	C0.17	A0.84	A1.62	A2.94	T0.57	T1.77	A2.86	T1.00	I1.28	A1.71	A2.02	I1.35	T0.58	T1.71	A2.59	T0.41	G0.16	A0.79	C0.32	T0.98	A0.43	C4.57	A0.68	A2.05	I1.14	A1.06	I1.27	G0.29	A0.91	G0.13	G0.21	C0.15	C0.10	C0.47	T0.41	C0.35	A0.67	G0.08	G0.13	G0.48	G0.17	T0.40	C0.37
	0.93867			0.57109			0.63996			0.08036			0.65532			0.44692			0.54316			0.01309			0.15909			0.55907			0.71244			0.94267			0.90316			0.95624			0.87887		