

Table with columns A through AE and rows for genes 1 to 1000. Each row represents a gene with its accession number, amino acid change, and various classification and mutation metrics across different databases and methods. The table is a dense grid of numerical and categorical data points for each gene.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1	Gene	Amino Acid Change	Allele Count	Number of Homozygotes	Allele Frequency	Literature report of status (1-16)	ACMG class (0-Benign/Likely Benign; 1- Pathogenic; 2- VUS; 4- Likely Pathogenic)	Location	PolyPhen		FATHMM Unweighted	FATHMM weighted	FATHMM weighted	PROVEAN	SIFT	Condel	Mutation Assessor v3	Mutation Assessor v4	MCAP	SCN Index	SCN Index	SCN Phenotype								
									Prediction (1 -> disease; 0.5 -> 1.5; 4 -> 1.5)	Score																				
1	SCN8A	P1797S	1	12008	0	0.00000278		1	C term	0.5	0	0.84	0	2.52	1	-4.19	1	4.03	1	0.019	1	0.632	0.5	0	2.57	1	0.518	1	0.818	
1	SCN8A	R1828I	1	12012	0	0.00000277		1	C term	0.5	0	0.96	0	2.11	1	-4.16	1	3.1	1	0.001	1	0.629	1	1	3.69	1	0.807	1	0.919	
1	SCN8A	I1827V	2	120796	0	0.00001656		1	C term	0	0	0.007	0	0.56	1	-3.71	0	0.28	0	0.961	0	0.500	0	0	0.55	1	0.950	0	0.104	
1	SCN8A	L1829P	1	120794	0	0.00000279		1	C term	1	1	1	1	-3.54	1	-4.35	1	-3.75	1	0	1	0.580	0.5	0	2.865	1	0.663	1	0.846	
1	SCN8A	A1831T	2	120788	0	0.00001656		1	C term	1	1	0.98	0	-1.46	1	-3.95	0	-2.43	1	0.001	1	0.552	0	0	0.725	1	0.286	0	0.383	
1	SCN8A	M1835V	3	120784	0	0.00002484		1	C term	0	0	0.07	0	-0.18	1	-3.82	1	-3.48	1	0.023	1	0.576	0.5	0	2.185	1	0.224	0	0.356	
1	SCN8A	R1841C	1	120772	0	0.00000282		1	C term	1	1	1	1	-4.65	1	-4.05	1	-7.44	1	0	1	0.672	0.5	0	1.475	1	0.668	1	0.897	
1	SCN8A	V1874M	1	120780	0	0.00000283		1	C term	0	0	0.046	0	0.79	1	-3.71	0	2.41	0	1	0	0.409	0	0	1.865	1	0.077	0	0.052	
1	SCN8A	F1884K	1	120738	0	0.00000282		1	C term	1	1	0.996	0	-1.55	1	-4.04	1	-3.42	1	0.001	1	0.616	0.5	0	2.61	1	0.801	1	0.925	
1	SCN8A	T1885S	1	120750	0	0.00000282		1	C term	0.5	0	0.874	0	-1.39	1	-4.04	1	-2.92	1	0.008	1	0.547	0	0	1.085	1	0.141	0	0.246	
1	SCN8A	R1891C	2	120752	0	0.00001656		1	C term	1	1	1	1	-4.43	1	-3.98	1	-6.23	1	0	1	0.624	0.5	0	3.14	1	0.514	0	0.780	
1	SCN8A	F1896G	1	120752	0	0.00000281		1	C term	0.5	0	0.879	0	-2.96	1	-4.07	1	-6.13	1	0	1	0.613	0.5	0	2.235	1	0.483	0	0.744	
1	SCN8A	R1894C	1	120740	0	0.00000282		1	C term	1	1	1	1	-2.02	0	-1.62	1	-7.41	1	0	0	0.499	0.5	0	2.61	1	0.025	0	0.106	
1	SCN8A	R1804H	2	120740	0	0.00001656		1	C term	1	1	0.998	1	-3.89	0	-1.57	1	-4.58	1	0	0	0.406	0	0	1.64	0	0.009	0	0.002	
1	SCN8A	R1807W	1	120748	0	0.00000282		1	C term	1	1	1	1	-17.58	0	-1.07	1	-7.44	1	0	1	0.693	0.5	0	2.95	1	0.372	0	0.434	
1	SCN8A	G1808R	1	120746	0	0.00000282		1	C term	0	0	0	1	-3.11	0	-1.01	0	-3.98	0	1	0	0.360	0	0	-1.21	0	0.002	0	0.002	
1	SCN8A	H1909Y	1	120740	0	0.00000282		1	C term	0	0	0	0	-1.49	0	-2.11	0	-1.97	0	0.666	0	0.400	0	0	0.525	0	0.003	0	0.002	
1	SCN8A	R192K	1	120720	0	0.00000284		1	C term	0	0	0.009	1	-5.24	0	-0.07	0	-1.07	0	0.587	0	0.473	0	0	0.74	0	0.004	0	0.010	
1	SCN8A	T1921A	2	120672	0	0.00001657		1	C term	0	0	0	0	-0.17	1	-3.78	0	0.04	0	0.254	0	0.492	0	0	0	0	0.020	0	0.088	
1	SCN8A	T1921P	8	120672	0	0.0000661		1	C term	0	0	0	0	-1.8	1	-3.87	0	-1.11	0	0.164	0	0.494	0	0	0.69	1	0.012	0	0.099	
1	SCN8A	G1926C	1	120670	0	0.00000807		1	C term	0	0	0.126	0	-0.13	0	-1.78	0	-0.51	0	0.142	0	0.492	0	0	0.895	1	0.012	0	0.091	
1	SCN8A	T1938I	1	120322	0	0.00000811		1	C term	0	0	0.26	0	-1.01	1	-3.86	0	-1.67	1	0.004	1	0.531	0	0	1.28	0	0.023	0	0.100	
1	SCN8A	R1939W	1	120318	0	0.00000812		1	C term	1	1	0.999	1	-3.89	1	-3.89	0	-1.72	1	0.005	1	0.541	0	0	0.805	1	0.092	0	0.185	
1	SCN8A	R1932Q	2	120328	0	0.00001665		1	C term	1	1	0.002	0	0.01	1	-3.79	0	0.04	0	0.281	1	0.519	0	0	0.235	0	0.020	0	0.132	
1	SCN8A	R1932P	7	120328	0	0.00005827		1	C term	0	0	0	0	-0.45	1	-3.82	0	0.92	0	1	0	0.486	0	0	-0.44	1	0.013	0	0.090	
1	SCN8A	T1938H	1	119458	0	0.00000873		1	C term	1	1	0.991	0	-1.97	1	-4	1	-2.67	1	0.002	1	0.564	0	0	1.89	1	0.346	0	0.486	
1	SCN8A	P1945L	1	117326	0	0.00000823		1	C term	1	1	1	1	-1.49	1	-3.96	1	-8.68	1	0.002	1	0.573	0.5	0	2.01	1	0.472	0	0.640	
1	SCN8A	S1946T	1	117270	0	0.00000827		1	C term	1	1	0.997	0	-2.4	1	-4.15	1	-2.67	1	0.001	1	0.577	0.5	0	2.01	1	0.615	1	0.795	
1	SCN8A	R1960L	1	108918	0	0.00000841		1	C term	0	0	0.307	0	-1.48	1	-3.9	0	-1	1	0.028	0	0.503	0	0	0	1	0.120	0	0.152	
1	SCN8A	R1960Q	3	108918	0	0.00002754		1	C term	0	0	0.013	0	-0.62	1	-3.85	0	-0.09	1	0.028	0	0.502	0	0	-0.55	1	0.080	0	0.126	
1	SCN8A	G1964R	1	104130	0	0.00000802		1	C term	0.5	0	0.819	0	-6.35	1	-3.81	0	-2.1	1	0.026	1	0.539	0	0	0.69	1	0.081	0	0.170	
1	SCN8A	R1964K	1	102086	0	0.00000971		1	C term	0	0	0	0	-0.86	1	-3.65	0	-1	0	1	0	0.461	0	0	-0.265	1	0.052	0	0.066	
1	SCN8A	R1968K	1	98388	0	0.00001016		1	C term	1	1	1	0	0.98	1	-3.63	0	-1.29	0	1	0	0.478	0	0	-1.175	1	0.063	0	0.087	

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