

Table S3 The most 50 important binary encoding mRMR feature scores, window positions and corresponding amino acids are presented.

Ranks	Score	Window	Amino	Ranks	Scores	Window	Amino
	s	positions	acids			positions	acids
1	0.05	-4	K	26	0.004	+13	C
2	0.031	-9	K	27	0.004	+2	F
3	0.028	-13	D	28	0.004	+3	R
4	0.015	-7	R	29	0.003	-1	Q
5	0.013	+11	Y	30	0.003	+6	V
6	0.008	-6	D	31	0.003	+3	F
7	0.008	-4	D	32	0.003	-4	E
8	0.007	-6	L	33	0.003	-11	C
9	0.006	-10	A	34	0.003	+9	D
10	0.006	-2	W	35	0.003	+13	Y
11	0.006	+12	V	36	0.003	+2	F
12	0.006	+3	K	37	0.003	-10	H
13	0.005	+10	E	38	0.003	-9	F
14	0.005	-4	E	39	0.003	-11	G
15	0.005	+10	A	40	0.003	+2	M
16	0.005	-6	N	41	0.003	-6	Y
17	0.005	+5	F	42	0.003	+11	W
18	0.004	+8	S	43	0.003	+5	I
19	0.004	+4	H	44	0.003	+11	Q
20	0.004	+1	E	45	0.003	-6	V
21	0.004	-13	V	46	0.003	-1	P
22	0.004	+2	Y	47	0.003	-9	V
23	0.004	-8	C	48	0.002	-13	K
24	0.004	+7	H	49	0.002	-9	V
25	0.004	+5	M	50	0.002	-13	N