

Prediction of solvent accessibility and sites of deleterious mutations from protein sequence

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Dataset of 2,148 nonhomologous protein chains (PDB entry plus chain label) used for developing WESA.

Training Set (1,684 chains)							
1531	1bouB	1dfx	1f6aB	1he2A	1lktA	1qndA	1yacA
1914	1bowA	1dg3A	1f6dA	1heiA	1lla	1qnf	1yagA
12asA	1boy	1dgsA	1f6fA	1hf2A	1lml	1qniA	1yaiA
16pk	1bp1	1dgwA	1f6vA	1hfh	1lox	1qnoA	1ybvA
16vpA	1bp7A	1dhn	1f75A	1hg5A	1lrv	1qnxA	1ycc
19hcA	1bpoA	1dhr	1f71A	1hgeA	1lst	1qo0D	1ycsB
1a04A	1bpyA	1dhs	1f82A	1hgeB	1lt3A	1qo7A	1yer
1a0hA	1bqk	1dhx	1f88A	1hh2P	1ltm	1qorA	1yge
1a0i	1bqv	1di6A	1f89A	1hhnA	1lucA	1qoxN	1yghA
1a0p	1br0A	1dik	1f8rA	1hi0P	1lvk	1qoyA	1ygs
1a12A	1br9	1din	1f8xA	1hi9A	1lxa	1qp8A	1yrgA
1a17	1brmA	1dioA	1f9aA	1hiwA	1lylA	1qpoA	1ytbA
1a1d	1brt	1dioB	1fa0B	1hjp	1lywA	1qpxA	1ytfD
1a1x	1brwA	1dioG	1fazA	1hjrA	1m6pA	1qq2A	1ytw
1a26	1bs0A	1div	1fbaA	1hka	1maz	1qq4A	1yua
1a2zA	1bs2A	1dj0A	1fbnA	1hlb	1mfa	1qq5A	1zbdB
1a36A	1bs4A	1dj7A	1fbr	1hlgA	1mhdA	1qq8A	1zin
1a3qA	1bt3A	1djxB	1fc3A	1hmt	1mhlC	1qqeA	1zpdA
1a41	1bteA	1dk5A	1fc6A	1hn9A	1mhyD	1qqgA	1zxq
1a44	1btka	1dkgA	1fcdA	1hnoA	1mjhA	1qqp1	1zymA
1a48	1buoA	1dkia	1fcdC	1ho1A	1mkaA	1qqp2	256bA
1a49A	1burA	1dk1A	1fce	1ho8A	1mla	1qqtA	2a0b
1a4mA	1bv1	1dkuA	1fchA	1hp4A	1mml	1qr0A	2abk
1a4yA	1bvB	1dkzA	1fcqA	1hpwA	1mmsA	1qr4B	2admA
1a5j	1bvp1	1dl5A	1fd9A	1hqca	1moq	1qr6A	2afpA
1a5r	1bvqA	1dleA	1fdr	1hqi	1mpgA	1qr7A	2ahjA
1a5t	1bvzA	1dliA	1fehA	1hqa	1mpyA	1qreA	2ahjB
1a62	1bw0A	1dlyA	1fepA	1hqvA	1mrj	1qrjB	2aop
1a6cA	1bw4	1dm9A	1feuA	1hr6A	1mroA	1qrcA	2arcA
1a6f	1bw8A	1dmgA	1fewA	1hrkA	1mroB	1qrrA	2bb2
1a6jA	1bwzA	1dmhA	1ff9A	1hruA	1mroC	1qs0A	2bbkH
1a6l	1bxex	1dmr	1fftC	1hs6A	1msc	1qs0B	2bbkL
1a6q	1bxiB	1dmtA	1fggA	1htjF	1msk	1qs1A	2bbvA
1a73A	1bxm	1dmuA	1fgjA	1htmB	1mslA	1qsaA	2bce
1a75A	1by2	1dn1A	1fgs	1htp	1mspA	1qsdA	2bidA
1a76	1byb	1dnv	1fgxA	1hu3A	1mtYB	1qspA	2bpa1
1a79A	1byrA	1do0A	1fh6A	1hu4A	1mtYG	1qtrA	2bpa2
1a7j	1byuA	1do6A	1fhoA	1hufA	1mucA	1qtsA	2btvA
1a7tA	1c05A	1dosA	1fi2A	1hulA	1mugA	1qu1A	2cas
1a81A	1c0aA	1dovA	1fi4A	1hurA	1mup	1qu5A	2cba
1a87	1c0nA	1dpgA	1fioA	1huxA	1mwpA	1qu6A	2cblA
1a8d	1c17M	1dq3A	1fiqC	1hv8A	1mxb	1qu7A	2cbp
1a8i	1c1gB	1dqaA	1fiuA	1hvc	1mypB	1qu9A	2cgpA

1a8l	1c1kA	1dqeA	1fiy	1hx1B	1nal3	1qubA	2chsA
1a8rA	1c1lA	1dqnA	1fjfb	1hxiA	1nar	1qumA	2cpl
1a8y	1c20A	1dqrA	1fjfc	1hxmA	1nbaA	1qupA	2cuaA
1a9nA	1c24A	1dquA	1fjfi	1hxmD	1nbcA	1quqB	2dhqA
1a9v	1c25	1dqyA	1fjfj	1hxn	1ncx	1quuA	2dkb
1aa7A	1c28A	1dr9A	1fjfk	1hyhA	1ndh	1quvA	2dorA
1ab4	1c2aA	1drmA	1fjfl	1hynP	1ndoA	1qvaA	2dpmA
1abrB	1c3d	1drw	1fjfm	1hyqA	1ndoB	1qvba	2dri
1abv	1c3gA	1ds9A	1fjfQ	1hyt	1neu	1rboC	2ebn
1abwA	1c3jA	1dt6A	1fjft	1hyuA	1nfn	1rcb	2end
1acc	1c3oA	1dt9A	1fjja	1hzgA	1nfp	1rcf	2eng
1adeA	1c3oB	1dtoA	1fjra	1i0rA	1ngl	1rcy	2erca
1adjA	1c3pA	1duja	1fkj	1i16	1nhp	1rdr	2ezk
1adn	1c3qA	1dupA	1fkma	1i17A	1nif	1rec	2fal
1aerA	1c3wA	1dvja	1flcA	1i18A	1nkr	1regX	2fcbA
1af7	1c3yA	1dvkA	1floA	1i19A	1nls	1repC	2fha
1afrA	1c4zA	1dvoA	1flp	1i1iP	1nmtA	1reqA	2fokA
1afwA	1c52	1dvpA	1fm2A	1i1ja	1nnt	1reqB	2frvA
1agjA	1c5eA	1dw0A	1fm2B	1i21A	1nox	1rfs	2fua
1agrE	1c8bA	1dw9A	1fmaE	1i3ja	1nplA	1rgeA	2gar
1ahsA	1c8uA	1dx5I	1fmk	1i4dA	1npk	1rgs	2gliA
1aihA	1c8zA	1dxeA	1fmtA	1i4wA	1nseA	1rhoA	2gmfA
1aisB	1c9kB	1dykA	1fn9A	1i52A	1nsta	1rhs	2gsaA
1ajqA	1c9qA	1dypA	1fnf	1i5nA	1ntcA	1ris	2hbg
1ak0	1c9uA	1dzfA	1fnhA	1i5pA	1nuka	1rkd	2hdhA
1ak4C	1ca1	1dz1A	1fnna	1i69A	1nula	1rl2A	2hfh
1ak5	1cb6A	1dzrA	1fo1A	1i6wA	1oacA	1rl6A	2hgsA
1am2	1cb7B	1e15A	1foaA	1i74A	1oasA	1rlr	2hrvA
1am7A	1cbf	1e1dA	1foeA	1i78A	1obpA	1rlw	2ilb
1amj	1cby	1e1qG	1fofA	1i7fA	1ocrC	1rmd	2if1
1amm	1cczA	1e29A	1fohA	1i7oA	1ocrD	1rmg	2ila
1amoA	1cd1A	1e2tA	1fouA	1i82A	1ofgA	1rmvA	2ilk
1amuA	1cd31	1e2xA	1fp3A	1i8tA	1om2A	1rom	2irfG
1anv	1cdcA	1e32A	1fpoA	1i9aA	1onrA	1rpxA	2jhbA
1aoa	1cdkA	1e3hA	1fpqA	1i9bA	1opc	1rss	2lbd
1aocA	1cdzA	1e44B	1fpxA	1i9sA	1opr	1rthA	2masA
1aohA	1cela	1e4fT	1fqvD	1i9yA	1opy	1rtm1	2mbr
1aoiC	1ceqA	1e5dA	1fqyA	1ia9A	1orda	1rvaA	2mcm
1aoiD	1cewI	1e5gA	1frpA	1iae	1osp0	1rvv1	2mev1
1aol	1cex	1e5rA	1fs0G	1iakA	1otcA	1ryc	2mnr
1aozA	1ceza	1e5xA	1fshA	1iakB	1otcB	1ryp1	2mprA
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1apyB	1cf9A	1e79G	1fsz	1ib2A	1oyc	1rypB	2myo
1aq0A	1cfe	1e79H	1ft1A	1ibja	1p32A	1rypC	2nadA
1aquA	1cfr	1e7wA	1ft1B	1ibza	1p35A	1rypD	2napA
1aqzA	1cfza	1e8bA	1ft9A	1icia	1pauA	1rype	2ncm
1arb	1cg2A	1e8cA	1ftrA	1id0A	1pauB	1rypF	2nllB
1at0	1chd	1e8tA	1fulB	1idlA	1pbe	1rzl	2nlrA
1au7A	1chmA	1e8xA	1fuiA	1ifa	1pbv	1sacA	2nmbA
1aua	1chuA	1e96B	1fukA	1ifqA	1pd21	1sat	2nsyA
1auiA	1ci0A	1e91A	1fumC	1ig3A	1pda	1sayA	2occA
1auk	1cid	1eaf	1fumD	1ig6A	1pdkB	1sbp	2occB
1aug	1cii	1eb7A	1fvaA	1ignA	1pdo	1seiA	2occe
1auwA	1cipA	1ebuA	1fvia	1igrA	1pdr	1sek	2occf

1auz	1cjaA	1ecfB	1fvkA	1igtB	1pea	1sesA	2ohxA
1av1A	1cjcA	1ecl	1fvzA	1ihmA	1pfo	1sfe	2pgd
1avc	1cjdA	1ecmA	1fw9A	1ihnA	1pgs	1sfp	2pgi
1avgI	1cjsA	1ecpA	1fwkA	1ihoA	1pgtA	1shcA	2pia
1avmA	1cjwA	1ecrA	1fwqA	1ii5A	1phd	1shkA	2pii
1avpA	1cjxA	1ecsA	1fwyA	1ii7A	1phm	1shsA	2pil
1avqA	1ck7A	1edg	1fx2A	1iibA	1pii	1sig	2plc
1aw7A	1ck9A	1edhA	1fx3B	1ijaA	1pinA	1skf	2polA
1aw8B	1ckeA	1eduA	1fxxA	1ijqA	1pjr	1skyE	2por
1awcA	1cklB	1ee6A	1fxzA	1ijxA	1pkp	1skz	2prd
1awe	1ckmA	1ee8A	1fy7A	1iknD	1plc	1sluA	2prgA
1ax4A	1ckqA	1ee9A	1fyc	1ile	1plq	1smd	2pspA
1ax8	1ckv	1eejA	1fyeA	1im3D	1pls	1smlA	2pth
1axj	1clc	1eerA	1fyvA	1im4A	1pmaP	1smpI	2qwc
1axkA	1cliA	1eesA	1fznD	1imbA	1pmd	1smrA	2reb
1aye	1clqA	1eflA	1fzrA	1imuA	1pmi	1smtA	2rmpA
1ayfA	1cm5A	1efcA	1g0rA	1inp	1poa	1smvA	2rn2
1ayl	1cmbA	1efdN	1g0sA	1iolA	1poc	1snc	2rslA
1aym1	1cmoA	1efnB	1g10A	1iq3A	1poiA	1soxA	2rspB
1ayx	1cnsA	1efuB	1g13A	1iq4A	1poiB	1sra	2sak
1azo	1cof	1efvA	1g24A	1iqpA	1pov1	1stfI	2scpA
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1b12A	1cqeA	1eg7A	1g31A	1ithA	1prtF	1svpA	2sli
1b20A	1cqxA	1egaA	1g3fA	1ivyA	1prxA	1sw6A	2spcA
1b24A	1cr6B	1eguA	1g3p	1ixh	1ps1A	1swuA	2sqcA
1b25A	1crzA	1eh2	1g4uS	1ixmA	1pscA	1t1dA	2stv
1b2pA	1cs6A	1ehaA	1g57A	1ixxB	1psrA	1taq	2tbd
1b2vA	1cs8A	1ei5A	1g5bA	1j79A	1puc	1taxA	2tbvA
1b35A	1csh	1ei9A	1g5cA	1j7iA	1pud	1tbgA	2tct
1b35B	1csn	1eiwA	1g5hA	1j7vR	1pyaB	1tbrR	2tgi
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1bcpA	1d2rB	1euvA	1gdoA	1jl5A	1qftA	1tyv	3pchA
1bcpB	1d2sA	1ev7B	1ge5A	1jlyA	1qfxA	1u9aA	3pchM
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1bd3A	1d2vA	1evyA	1gewA	1jn5B	1qg8A	1ubpA	3pmgA
1bd8	1d2zA	1ew4A	1gg4A	1jotA	1qgbA	1ubpB	3proc
1bdfA	1d2zB	1ewaA	1ggwA	1jp4A	1qgiA	1ubpC	3pte
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1bea	1d4oA	1ewxA	1gln	1js8A	1qgxA	1lulo	3ssi
1bf2	1d4vA	1ex1A	1gm5A	1jt8A	1qh4A	1lumUA	3stdA
1bg1A	1d5rA	1ex2A	1gnd	1jtdB	1qh5A	1luok	3tdt
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1bgf	1d7mA	1ey2A	1gox	1jv2B	1qhdA	1luroA	3vub
1bg1A	1d7qA	1eypA	1gpc	1jvnA	1qhfA	1lush	3ygsP
1bhgA	1d8cA	1eyvA	1gpeA	1jvr	1qhiA	1luteA	4aahA
1bhtA	1d8iA	1eyyA	1gpl	1jxpA	1qhlA	1lvcaA	4bcl
1bhu	1d9cA	1ezfA	1gpmA	1k3fA	1qhqa	1lvcbC	4crxA
1bi0	1d9eA	1ezjA	1gpr	1k89	1qhsA	1lvdeA	4enl
1bia	1dabA	1ezvB	1gria	1kb5B	1qhuA	1lvhh	4kbpA
1bif	1dapA	1f00I	1grj	1kcw	1qhva	1lvhrA	4pah
1bj4A	1dar	1f0iA	1gsa	1kfuL	1qi7A	1lvid	4pgaA
1bj5	1db1A	1f0jA	1gsoA	1kit	1qipA	1lvin	4uagA
1bjt	1db3A	1f13A	1gtrA	1klo	1qj2A	1lvmoA	4xis
1bjwA	1dbgA	1f15B	1guqA	1knyA	1qj2C	1lvns	5csmA
1bk0	1dbuA	1f16A	1guxA	1koe	1qj4A	1lvpfA	5eat
1bk7A	1dc1A	1f1zA	1guxB	1kpf	1qj8A	1lvpsA	5nul
1kbb	1dceA	1f2nA	1h2rL	1kptA	1qjaA	1lvsrA	5ptp
1kbcA	1dceB	1f2tA	1h4uA	1krs	1qjdA	1lwab	5tmpA
1bkds	1dcfA	1f2tB	1h54B	1ksib	1qjvA	1lwba	6mhtA
1bkpA	1dcpA	1f2vA	1h5pA	1kte	1qk3A	1lwdcB	6paxA
1bkrA	1dcqA	1f32A	1h6gA	1kuh	1qk9A	1lwdcC	6prcC
1bl8A	1dcs	1f35A	1h6kA	1kum	1qklA	1lwer	6prcH
1ble	1dd5A	1f37A	1h6oA	1l92	1qkrA	1lwgjA	6prcM
1bm8	1dd8A	1f3hA	1h6qA	1lam	1qksA	1lwhi	7a3hA
1bm9A	1dd9A	1f3rB	1h70A	1larA	1qlaA	1lwhtB	7ahlA
1bm1C	1ddbA	1f3uA	1h7eA	1lay	1qlaB	1lwit	7odcA
1bmtA	1ddf	1f3uB	1h7wA	1lba	1qlaC	1lwod	7rsa
1bmv1	1ddt	1f3vA	1h8uA	1lbd	1qlgA	1lxbrA	7taa
1bmv2	1ddzA	1f42A	1h99A	1lbeA	1qlmA	1lxel	8abp
1bn5	1de5A	1f45B	1h9jA	1lbu	1qltA	1lxeR	8atcB

1bndA	1deaA	1f46A	1havA	1lci	1qlwA	1xika	9rnt
1bnkA	1dekA	1f48A	1hc7A	1lckA	1qm9A	1xjo	9wgaA
1bolA	1deoA	1f5mB	1hce	1led	1qmgA	1xpa	
1bob	1derA	1f5sA	1hcnB	1lgr	1qmhA	1xsm	
1bolA	1dfcA	1f5wA	1hcuA	1lis	1qmuA	1xvaA	
1bouA	1dfuP	1f5xA	1hcz	1ljrA	1qmyA	1xwl	

Test Set (464 chains)

1a02N	1atg	1bi5A	1cl2A	1dyoA	1f2dA	1he1A	1pvl
1a0cA	1atiA	1bihA	1cl1	1dz3A	1f3yA	1hfc	1qcsA
1a0fA	1atlA	1bix	1cnt3	1dzoA	1f4tA	1hg3A	1qfjA
1a0tP	1atzA	1bj7	1cnv	1e0cA	1f5qB	1hs7A	1qfoA
1a28A	1auiB	1bjA	1cnzA	1elaA	1f6yA	1htn	1qghA
1a2vA	1auoA	1bjnA	1cp2A	1e20A	1f7cA	1huw	1qguA
1a34A	1auvA	1bjx	1cpcA	1e25A	1f97A	1hwyA	1qgvA
1a3aA	1auyA	1bk5A	1cpq	1e2aA	1fadA	1ilrB	1qgwC
1a3c	1avaC	1bkjA	1cpt	1e3jA	1faoA	1i49A	1qj2B
1a3k	1avoB	1bli	1cqkA	1e42A	1fds	1i4tB	1qo2A
1a4iA	1awd	1bmdA	1cqqA	1e54A	1fezA	1i85A	1qo3C
1a53	1axiB	1bn6A	1cr1A	1e6bA	1fgkA	1ia8A	1qouA
1a65A	1aym2	1bncA	1cr5A	1e6fA	1fhuA	1iarB	1qpzA
1a6dA	1aym3	1bo4A	1ctqA	1e6wA	1fiqB	1ido	1qqp3
1a6m	1ayoA	1booA	1cunA	1e70M	1fit	1ig0A	1qsmA
1a6o	1az9	1bpv	1cviA	1ea1A	1fj7A	1ihp	1qu2A
1a7s	1b0uA	1bpwA	1cvsc	1eagA	1fjcA	1iirA	1quqA
1a8h	1b10A	1bqcA	1cy5A	1ebmA	1fjhB	1iow	1r2fA
1aa0	1b16A	1bqg	1cydA	1eceA	1fkna	1j77A	1rie
1aac	1b37B	1bqsA	1cztA	1ecxA	1flcB	1jatB	1rrpB
1ac5	1b4cA	1bquA	1d1dA	1ee4A	1fltX	1jeqA	1rsy
1ad2	1b5eA	1bs9	1d2kA	1eemA	1fm5A	1jfuA	1ryt
1ad3A	1b64	1bsvA	1d3gA	1eerB	1fmb	1jk0A	1skyB
1ae9A	1b6cB	1bt1	1d4tA	1ef8A	1fnc	1jli	1svy
1aep	1b6e	1btn	1d4vB	1eggA	1fpzA	1jmtA	1t7pA
1ag4	1b6g	1bu2A	1d6jA	1ehkA	1fqtA	1jn5A	1tiid
1agdA	1b6rA	1bu7A	1d6mA	1ehxA	1fqvA	1lcl	1tvda
1agdB	1b6tA	1bvwa	1d7yA	1ehyA	1fr9A	1lki	1u2fA
1agqA	1b77A	1bvYF	1daaA	1eia	1frb	1lv1	1vcba
1ahl	1b78A	1bw9A	1dbtA	1ej3A	1furA	1mai	1vdrA
1ah7	1b7g0	1bx4A	1dbwA	1ejeA	1fwrA	1mfmA	1vfrA
1air	1b87A	1bxda	1dciA	1elqA	1fxkA	1mgtA	1vls
1aj2	1b8aA	1bxkA	1dg9A	1ema	1fxkC	1mli	1vsgA
1aj6	1b8gA	1bxwA	1dguA	1enp	1g55A	1mola	1who
1aj8A	1b8oA	1by1A	1dhpA	1envA	1g7oA	1mrp	1wwcA
1ajqB	1b8xA	1by5A	1di0A	1eokA	1g84A	1mun	1x11A
1ajsA	1b9dA	1byfA	1di1A	1ep2B	1ga3A	1nedA	1xnaA
1ak1	1b9hA	1byi	1dk4A	1epaA	1gajA	1nf1A	2acy
1ako	1b91A	1bykA	1dl2A	1eps	1gaka	1ng1A	2ccyA
1al3	1ba1	1by1A	1dlxA	1eqkA	1gaxA	1nksA	2cmd
1alo	1bag	1bywA	1dm0A	1erjA	1gc1H	1nsgB	2er7E
1alu	1bak	1clgA	1dmlA	1erv	1gceA	1nsj	2fnbA
1alvA	1bbhA	1c3cA	1dn1B	1erzA	1gdhA	1nwpA	2gdm
1aly	1bbpA	1c4rA	1dp4A	1esxA	1gen	1nzyA	2liv
1amk	1bcfA	1c4xA	1dpe	1eteA	1ggqA	1oaa	2mhr
1amp	1bcpD	1c8oA	1dpsA	1etpA	1ggxA	1onc	2omf

1amx	1bdb	1c8pA	1dptA	1eu8A	1gky	1othA	2sas
1an8	1bdyA	1caxB	1dqqA	1euhA	1gp1A	1ounA	2tpsA
1an9A	1bel	1cb0A	1dqsA	1evsA	1gr2A	1ovaA	2tysA
1aoeA	1be3A	1cb8A	1dqwA	1exg	1gtxA	1pbwA	3erdA
1aoiA	1bebA	1cd8	1drtA	1exnA	1h8mA	1pcl	3grs
1aoxA	1bec	1cdy	1dssG	1eyrA	1h91A	1pedA	3prn
1ap8	1befA	1cem	1dtyA	1ez1A	1h97A	1pmaA	3pyp
1aqb	1bfd	1ceo	1dun	1ezvG	1ha1	1pne	3seb
1aqt	1bfg	1cfb	1dusA	1ezwA	1han	1pot	3ullA
1arv	1bgc	1cg5B	1dwnA	1f08A	1hcl	1poxA	4mbp
1ash	1bgp	1chkA	1dxy	1f0kA	1hd2A	1psdA	6prcL
1at3A	1bhe	1ciy	1dynA	1f0xA	1hdmB	1pty	8fabA

Two-state classification for all the 582,352 residues in the dataset calculated by the DSSP program is available by e-mail to zhou@sb.fsu.edu.