

Table 4. Performance in cross-validation

total True SSL interactions = 3685

total Falses = 688433

score threshold	Sensitivity (true positive rate)	1-Specificity (false positive rate)	# passing threshold (trues + falses = total)	success rate (% true of total passing threshold)
0	1	1	3685 + 688433 = 692118	0.53
1.00E-05	1	0.999995642	3685 + 688430 = 692115	0.53
0.00021	1	0.999989832	3685 + 688426 = 692111	0.53
0.00024	1	0.999976759	3685 + 688417 = 692102	0.53
0.00026	1	0.999965138	3685 + 688409 = 692094	0.53
0.00027	1	0.99995497	3685 + 688402 = 692087	0.53
0.0011	0.956309362	0.806996469	3524 + 555563 = 559087	0.63
0.00112	0.905563094	0.606542685	3337 + 417564 = 420901	0.79
0.00114	0.829308005	0.222329551	3056 + 153059 = 156115	2
0.00285	0.808955224	0.187926784	2981 + 129375 = 132356	2
0.00291	0.791044776	0.15586702	2915 + 107304 = 110219	3
0.00293	0.773677069	0.124045477	2851 + 85397 = 88248	3
0.00304	0.756852103	0.091147577	2789 + 62749 = 65538	4
0.00391	0.756580733	0.089269399	2788 + 61456 = 64244	4
0.00398	0.753595658	0.087418819	2777 + 60182 = 62959	4
0.00463	0.752238806	0.085716402	2772 + 59010 = 61782	4
0.00477	0.750881954	0.084034321	2767 + 57852 = 60619	5
0.00489	0.749796472	0.082365314	2763 + 56703 = 59466	5
0.009	0.749253731	0.081928089	2761 + 56402 = 59163	5
0.0093	0.748982361	0.081441477	2760 + 56067 = 58827	5
0.02462	0.718860244	0.075869402	2649 + 52231 = 54880	5
0.02485	0.670013569	0.065556125	2469 + 45131 = 47600	5
0.02486	0.650474898	0.064996884	2397 + 44746 = 47143	5
0.02514	0.601356852	0.054477342	2216 + 37504 = 39720	6
0.02598	0.54816825	0.043539458	2020 + 29974 = 31994	6
0.02639	0.524830393	0.037933975	1934 + 26115 = 28049	7
0.02649	0.500949796	0.032244242	1846 + 22198 = 24044	8
0.02653	0.478154681	0.026686693	1762 + 18372 = 20134	9

0.03311	0.478154681	0.026615517	1762 + 18323 = 20085	9
0.03361	0.460515604	0.024689403	1697 + 16997 = 18694	9
0.03535	0.457530529	0.024606607	1686 + 16940 = 18626	9
0.03686	0.443690638	0.022658705	1635 + 15599 = 17234	9
0.03889	0.424423338	0.020155919	1564 + 13876 = 15440	10
0.04135	0.411397558	0.018075833	1516 + 12444 = 13960	11
0.04895	0.410854817	0.018027898	1514 + 12411 = 13925	11
0.04911	0.402713704	0.017555812	1484 + 12086 = 13570	11
0.04958	0.399185889	0.01708663	1471 + 11763 = 13234	11
0.05011	0.395386703	0.016582587	1457 + 11416 = 12873	11
0.05329	0.394572592	0.016517221	1454 + 11371 = 12825	11
0.05384	0.36770692	0.014302045	1355 + 9846 = 11201	12
0.05449	0.347896879	0.01209268	1282 + 8325 = 9607	13
0.05471	0.327001357	0.009832475	1205 + 6769 = 7974	15
0.05532	0.305563094	0.007572269	1126 + 5213 = 6339	18
0.05618	0.300678426	0.00714376	1108 + 4918 = 6026	18
0.05925	0.289280868	0.006049971	1066 + 4165 = 5231	20
0.06227	0.286295794	0.005946839	1055 + 4094 = 5149	20
0.06894	0.279240163	0.005381787	1029 + 3705 = 4734	22
0.07411	0.279240163	0.005303348	1029 + 3651 = 4680	22
0.08882	0.278426052	0.005207478	1026 + 3585 = 4611	22
0.09361	0.269199457	0.004823999	992 + 3321 = 4313	23
0.0971	0.261329715	0.004453592	963 + 3066 = 4029	24
0.10146	0.254545455	0.004078828	938 + 2808 = 3746	25
0.1031	0.240705563	0.003590763	887 + 2472 = 3359	26
0.11821	0.238263229	0.003503609	878 + 2412 = 3290	27
0.11971	0.237449118	0.003494893	875 + 2406 = 3281	27
0.13501	0.235549525	0.003442601	868 + 2370 = 3238	27
0.14328	0.217910448	0.00289498	803 + 1993 = 2796	29
0.1437	0.200814111	0.00234736	740 + 1616 = 2356	31
0.14435	0.192401628	0.00230233	709 + 1585 = 2294	31
0.14728	0.190773406	0.002244227	703 + 1545 = 2248	31
0.14936	0.170691995	0.00165884	629 + 1142 = 1771	36
0.15698	0.169877883	0.001638504	626 + 1128 = 1754	36
0.16714	0.169606513	0.001629788	625 + 1122 = 1747	36
0.16887	0.168521031	0.001558612	621 + 1073 = 1694	37

0.17653	0.167164179	0.001516487	$616 + 1044 = 1660$	37
0.17659	0.166621438	0.001494699	$614 + 1029 = 1643$	37
0.17681	0.166621438	0.001451122	$614 + 999 = 1613$	38
0.19096	0.164179104	0.001408997	$605 + 970 = 1575$	38
0.19272	0.162008141	0.001363967	$597 + 939 = 1536$	39
0.19474	0.161736771	0.001350894	$596 + 930 = 1526$	39
0.20842	0.160651289	0.001330558	$592 + 916 = 1508$	39
0.21469	0.160651289	0.001323295	$592 + 911 = 1503$	39
0.23619	0.160108548	0.001297149	$590 + 893 = 1483$	40
0.26993	0.156852103	0.001285528	$578 + 885 = 1463$	40
0.31535	0.143012212	0.001131555	$527 + 779 = 1306$	40
0.31827	0.140841248	0.001115577	$519 + 768 = 1287$	40
0.3228	0.128358209	0.00097032	$473 + 668 = 1141$	41
0.33027	0.115603799	0.000842493	$426 + 580 = 1006$	42
0.33365	0.115332429	0.000839588	$425 + 578 = 1003$	42
0.34348	0.103663501	0.000700141	$382 + 482 = 864$	44
0.36415	0.10312076	0.000697236	$380 + 480 = 860$	44
0.37536	0.10312076	0.000692878	$380 + 477 = 857$	44
0.40014	0.102849389	0.000691425	$379 + 476 = 855$	44
0.42897	0.100949796	0.000687068	$372 + 473 = 845$	44
0.42937	0.100949796	0.000685615	$372 + 472 = 844$	44
0.44287	0.086024423	0.000579577	$317 + 399 = 716$	44
0.45014	0.085481682	0.000570862	$315 + 393 = 708$	44
0.45845	0.067299864	0.000456108	$248 + 314 = 562$	44
0.46274	0.050474898	0.00034426	$186 + 237 = 423$	44
0.46791	0.031750339	0.000217886	$117 + 150 = 267$	44
0.46893	0.030393487	0.000201908	$112 + 139 = 251$	45
0.50028	0.022252374	0.000137995	$82 + 95 = 177$	46
0.50071	0.021709634	0.000127827	$80 + 88 = 168$	48
0.53746	0.016010855	8.72E-05	$59 + 60 = 119$	50
0.54058	0.010312076	4.50E-05	$38 + 31 = 69$	55
0.55028	0.009769335	4.21E-05	$36 + 29 = 65$	55
0.60681	0.004884668	3.05E-05	$18 + 21 = 39$	46
0.63188	0.004613297	2.47E-05	$17 + 17 = 34$	50
0.66674	0.000542741	5.81E-06	$2 + 4 = 6$	33
0.74374	0	0	$0 + 0 = 0$	0

