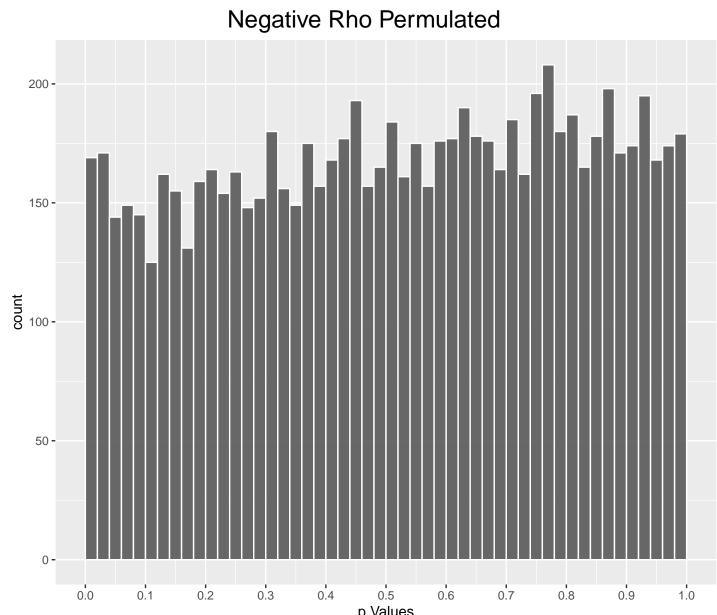
Gene	Rho	Р	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PHF5A	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
PTCD3	5.557042	8.231524e-08	4.446e-04	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ACTC1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
H4C2	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
UBE2G1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ABCB4	-5.054135	1.297036e-06	2.328e-03	2.089e-04	2.089e-04	1.000e+00	5.371e-01
ANXA11	-3.470489	1.558537e-03	1.010e-01	3.019e-04	3.019e-04	1.000e+00	5.371e-01
BDNF	-4.856071	3.592126e-06	3.025e-03	3.280e-04	3.280e-04	1.000e+00	5.371e-01
KLHDC2	-4.495795	2.079314e-05	8.640e-03	3.511e-04	3.511e-04	1.000e+00	5.371e-01
CTNND1	-5.843195	1.536268e-08	1.245e-04	3.830e-04	3.830e-04	1.000e+00	5.371e-01
PKIB	-4.211346	7.615610e-05	1.928e-02	3.882e-04	3.882e-04	1.000e+00	5.371e-01
TMEM116	5.132478	8.578565e-07	1.815e-03	4.020e-04	4.020e-04	1.000e+00	5.371e-01
RIMKLA	3.433569	1.787073e-03	1.078e-01	4.309e-04	4.309e-04	1.000e+00	5.371e-01
RNASE9	3.358547	2.350599e-03	1.204e-01	5.437e-04	5.437e-04	1.000e+00	6.293e-01
DHX58	-3.234726	3.652786e-03	1.537e-01	7.034e-04	7.034e-04	1.000e+00	6.482e-01
TBX21	-3.382143	2.157682e-03	1.166e-01	7.248e-04	7.248e-04	1.000e+00	6.482e-01
PLPP3	-3.638144	8.238288e-04	6.990e-02	7.309e-04	7.309e-04	1.000e+00	6.482e-01
ARMT1	4.255301	6.263051e-05	1.720e-02	7.724e-04	7.724e-04	1.000e+00	6.482e-01
CSAD	-3.041026	7.073214e-03	2.131e-01	8.011e-04	8.011e-04	1.000e+00	6.482e-01
KLHL12	-4.048121	1.548911e-04	2.988e-02	8.572e-04	8.572e-04	1.000e+00	6.482e-01
JAK1	-4.074511	1.383337e-04	2.768e-02	8.683e-04	8.683e-04	1.000e+00	6.482e-01
WIPF3	3.130740	5.230994e-03	1.839e-01	8.800e-04	8.800e-04	1.000e+00	6.482e-01
PCDHA4	-3.133306	5.185467e-03	1.839e-01	9.370e-04	9.370e-04	1.000e+00	6.602e-01
SPAG5	4.143099	1.027932e-04	2.346e-02	1.191e-03	1.191e-03	1.000e+00	8.042e-01
NCOR1	4.368033	3.761123e-05	1.325e-02	1.333e-03	1.333e-03	1.000e+00	8.643e-01

PHF5A 0.000000 1.000000e+00 1.0000e+00 0.000e+00 1.000e+00 0.000e+00 PTCD3 5.557042 8.231524e-08 4.446e-04 0.000e+00 0.000e+00 1.000e+00 0.000e+00 0.000e+00 1.000e+00 1.0000e+00 0.000e+00 1.000e+00 0.000e+00 1.000e+00 0.000e+00 ABCB4 -5.054135 1.297036e-06 2.328e-03 2.089e-04 2.089e-04 1.000e+00 5.371e-0 PKIB -4.211346 7.615610e-05 1.928e-02 3.882e-04 3.882e-04 1.000e+00 5.371e-0 PKIB -4.211346 7.615610e-05 1.928e-02 3.882e-04 3.882e-04 1.000e+00 5.371e-0 RIMKLA 3.433569 1.787073e-03 1.078e-01 4.309e-04 4.309e-04 1.000e+00 5.371e-0 ANXA11 -3.470489 1.558537e-03 1.010e-01 3.019e-04 3.019e-04 1.000e+00 5.371e-0 BDNF -4.856071 3.592126e-06 3.025e-03 3.280e-04 3.280e-04 1.000e+00 5.371e-0 RIMSL1 5.132478 8.578565e-07 1.815e-03 4.020e-04 4.020e-04 1.000e+00 5.371e-0 DHX58 -3.234726 3.652786e-03 1.537e-01 5.437e-04 5.437e-04 1.000e+00 5.371e-0 DHX58 -3.234726 3.652786e-03 1.537e-01 7.034e-04 7.248e-04 1.000e+00 6.482e-0 CSAD -3.041026 7.073214e-03 2.131e-01 8.011e-04 8.011e-04 1.000e+00 6.482e-0 CSAD -3.041026 7.073214e-03 2.131e-01 8.000e+00 4.800e-00 1.000e+00 6.482e-0 CSAD -3.041026 7.073214e-03 2.131e-01 8.000e+00 4.800e-00 6.482e-0 CSAD -3.041026 7.073214e-03 2.131e-01 8.000e+00 4.800e-00 6.482e-00 DFLTA -3.033306 5.185467e-03 1.839e-01 9.370e-04	Gene	Rho	Р	p.adj	permP	permPValue	qValueNoperm	qValuePerm
ACTC1 0.000000 1.000000e+00 1.000e+00 0.000e+00 0.000e+00 1.000e+00 0.000e+00 1.000e+00 1.000e+00 1.000e+00 0.000e+00 0.000e+00 1.000e+00 0.000e+00 1.000e+00 0.000e+00 1.000e+00 0.000e+00 1.000e+00 0.000e+00 1.000e+00 0.000e+00 1.000e+00 0.000e+00 0.000e+00 1.000e+00 0.000e+00 1.000e+00 5.371e-00 0.000e+00 1.000e+00 5.371e-00 0.000e+00 0.000e+00 1.000e+00 5.371e-00 0.000e+00 0.000e+0		-				•	•	0.000e+00
H4C2 0.000000 1.000000e+00 1.000e+00 0.000e+00 0.000e+00 1.000e+00 0.000e+00 0.0000e+00 0.000e+00 0.000e+00 0.000e+00 0.0000e+00 0.00000e+00 0.00000e+00 0.000000e+00 0.0000000000	PTCD3	5.557042	8.231524e-08	4.446e-04	0.000e+00	0.000e+00	1.000e+00	0.000e+00
UBE2G1 0.000000 1.00000e+00 1.000e+00 0.000e+00 0.000e+00 1.000e+00 0.000e+00 5.371e-00 0.000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+0	ACTC1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ABCB4	H4C2	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
KLHDC2	UBE2G1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
PKIB	ABCB4	-5.054135	1.297036e-06	2.328e-03	2.089e-04	2.089e-04	1.000e+00	5.371e-01
CTNND1	KLHDC2	-4.495795	2.079314e-05	8.640e-03	3.511e-04	3.511e-04	1.000e+00	5.371e-01
RIMKLA 3.433569 1.787073e-03 1.078e-01 4.309e-04 4.309e-04 1.000e+00 5.371e-0 ANXA11 -3.470489 1.558537e-03 1.010e-01 3.019e-04 3.019e-04 1.000e+00 5.371e-0 BDNF -4.856071 3.592126e-06 3.025e-03 3.280e-04 3.280e-04 1.000e+00 5.371e-0 IMEM116 5.132478 8.578565e-07 1.815e-03 4.020e-04 4.020e-04 1.000e+00 5.371e-0 IMEM116 5.132478 8.578565e-07 1.815e-03 4.020e-04 4.020e-04 1.000e+00 5.371e-0 IMEM116 5.132478 8.578565e-07 1.815e-03 4.020e-04 4.020e-04 1.000e+00 6.293e-0 IMEM21 -3.382143 2.157682e-03 1.204e-01 5.437e-04 5.437e-04 1.000e+00 6.482e-0 IMEM21 -3.382143 2.157682e-03 1.537e-01 7.034e-04 7.034e-04 1.000e+00 6.482e-0 IMEM21 -3.041026 7.073214e-03 2.131e-01 8.011e-04 8.011e-04 1.000e+00 6.482e-0 IMEM21 1.548911e-04 2.988e-02 8.572e-04 8.572e-04 1.000e+00 6.482e-0 IMEM21 4.255301 6.263051e-05 1.720e-02 7.724e-04 7.724e-04 1.000e+00 6.482e-0 IMEM21 4.255301 6.263051e-05 1.720e-02 7.309e-04 7.309e-04 1.000e+00 6.482e-0 IMEM23 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.800e-04 1.000e+00 6.482e-0 IMEM23 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.683e-04 1.000e+00 6.482e-0 IMEM23 3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.482e-0 IMEM23 1.000e+00 6.48	PKIB	-4.211346	7.615610e-05	1.928e-02	3.882e-04	3.882e-04	1.000e+00	5.371e-01
ANXA11	CTNND1	-5.843195	1.536268e-08	1.245e-04	3.830e-04	3.830e-04	1.000e+00	5.371e-01
BDNF -4.856071 3.592126e-06 3.025e-03 3.280e-04 3.280e-04 1.000e+00 5.371e-06	RIMKLA	3.433569	1.787073e-03	1.078e-01	4.309e-04	4.309e-04	1.000e+00	5.371e-01
TMEM116 5.132478 8.578565e-07 1.815e-03 4.020e-04 4.020e-04 1.000e+00 5.371e-0 RNASE9 3.358547 2.350599e-03 1.204e-01 5.437e-04 5.437e-04 1.000e+00 6.293e-0 TBX21 -3.382143 2.157682e-03 1.166e-01 7.248e-04 7.248e-04 1.000e+00 6.482e-0 DHX58 -3.234726 3.652786e-03 1.537e-01 7.034e-04 7.034e-04 1.000e+00 6.482e-0 CSAD -3.041026 7.073214e-03 2.131e-01 8.011e-04 8.011e-04 1.000e+00 6.482e-0 KLHL12 -4.048121 1.548911e-04 2.988e-02 8.572e-04 8.572e-04 1.000e+00 6.482e-0 ARMT1 4.255301 6.263051e-05 1.720e-02 7.724e-04 7.724e-04 1.000e+00 6.482e-0 PLPP3 -3.638144 8.238288e-04 6.990e-02 7.309e-04 7.309e-04 1.000e+00 6.482e-0 WIPF3 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.800e-04 1.000e+00 6.482e-0 JAK1 -4.074511 1.383337e-04 2.768e-02 8.683e-04 8.683e-04 1.000e+00 6.482e-0 PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 1.000e+00 6.482e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	ANXA11	-3.470489	1.558537e-03	1.010e-01	3.019e-04	3.019e-04	1.000e+00	5.371e-01
RNASE9 3.358547 2.350599e-03 1.204e-01 5.437e-04 5.437e-04 1.000e+00 6.293e-0 TBX21 -3.382143 2.157682e-03 1.166e-01 7.248e-04 7.248e-04 1.000e+00 6.482e-0 DHX58 -3.234726 3.652786e-03 1.537e-01 7.034e-04 7.034e-04 1.000e+00 6.482e-0 CSAD -3.041026 7.073214e-03 2.131e-01 8.011e-04 8.011e-04 1.000e+00 6.482e-0 KLHL12 -4.048121 1.548911e-04 2.988e-02 8.572e-04 8.572e-04 1.000e+00 6.482e-0 ARMT1 4.255301 6.263051e-05 1.720e-02 7.724e-04 7.724e-04 1.000e+00 6.482e-0 PLPP3 -3.638144 8.238288e-04 6.990e-02 7.309e-04 7.309e-04 1.000e+00 6.482e-0 WIPF3 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.800e-04 1.000e+00 6.482e-0 JAK1 -4.074511 1.383337e-04 2.768e-02 8.683e-04 8.683e-04 1.000e+00 6.482e-0 PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.602e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	BDNF	-4.856071	3.592126e-06	3.025e-03	3.280e-04	3.280e-04	1.000e+00	5.371e-01
TBX21	MEM116	5.132478	8.578565e-07	1.815e-03	4.020e-04	4.020e-04	1.000e+00	5.371e-01
DHX58 -3.234726 3.652786e-03 1.537e-01 7.034e-04 7.034e-04 1.000e+00 6.482e-0 CSAD -3.041026 7.073214e-03 2.131e-01 8.011e-04 8.011e-04 1.000e+00 6.482e-0 KLHL12 -4.048121 1.548911e-04 2.988e-02 8.572e-04 8.572e-04 1.000e+00 6.482e-0 ARMT1 4.255301 6.263051e-05 1.720e-02 7.724e-04 7.724e-04 1.000e+00 6.482e-0 PLPP3 -3.638144 8.238288e-04 6.990e-02 7.309e-04 7.309e-04 1.000e+00 6.482e-0 WIPF3 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.800e-04 1.000e+00 6.482e-0 JAK1 -4.074511 1.383337e-04 2.768e-02 8.683e-04 8.683e-04 1.000e+00 6.482e-0 PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.602e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	RNASE9	3.358547	2.350599e-03	1.204e-01	5.437e-04	5.437e-04	1.000e+00	6.293e-01
CSAD -3.041026 7.073214e-03 2.131e-01 8.011e-04 8.011e-04 1.000e+00 6.482e-0 KLHL12 -4.048121 1.548911e-04 2.988e-02 8.572e-04 8.572e-04 1.000e+00 6.482e-0 ARMT1 4.255301 6.263051e-05 1.720e-02 7.724e-04 7.724e-04 1.000e+00 6.482e-0 PLPP3 -3.638144 8.238288e-04 6.990e-02 7.309e-04 7.309e-04 1.000e+00 6.482e-0 WIPF3 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.800e-04 1.000e+00 6.482e-0 JAK1 -4.074511 1.383337e-04 2.768e-02 8.683e-04 8.683e-04 1.000e+00 6.482e-0 PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.602e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	TBX21	-3.382143	2.157682e-03	1.166e-01	7.248e-04	7.248e-04	1.000e+00	6.482e-01
KLHL12 -4.048121 1.548911e-04 2.988e-02 8.572e-04 8.572e-04 1.000e+00 6.482e-04	DHX58	-3.234726	3.652786e-03	1.537e-01	7.034e-04	7.034e-04	1.000e+00	6.482e-01
ARMT1 4.255301 6.263051e-05 1.720e-02 7.724e-04 7.724e-04 1.000e+00 6.482e-0 PLPP3 -3.638144 8.238288e-04 6.990e-02 7.309e-04 7.309e-04 1.000e+00 6.482e-0 WIPF3 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.800e-04 1.000e+00 6.482e-0 JAK1 -4.074511 1.383337e-04 2.768e-02 8.683e-04 8.683e-04 1.000e+00 6.482e-0 PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.602e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	CSAD	-3.041026	7.073214e-03	2.131e-01	8.011e-04	8.011e-04	1.000e+00	6.482e-01
PLPP3 -3.638144 8.238288e-04 6.990e-02 7.309e-04 7.309e-04 1.000e+00 6.482e-0 WIPF3 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.800e-04 1.000e+00 6.482e-0 JAK1 -4.074511 1.383337e-04 2.768e-02 8.683e-04 8.683e-04 1.000e+00 6.482e-0 PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.602e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	KLHL12	-4.048121	1.548911e-04	2.988e-02	8.572e-04	8.572e-04	1.000e+00	6.482e-01
WIPF3 3.130740 5.230994e-03 1.839e-01 8.800e-04 8.800e-04 1.000e+00 6.482e-0 JAK1 -4.074511 1.383337e-04 2.768e-02 8.683e-04 8.683e-04 1.000e+00 6.482e-0 PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.602e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	ARMT1	4.255301	6.263051e-05	1.720e-02	7.724e-04	7.724e-04	1.000e+00	6.482e-01
JAK1 -4.074511 1.383337e-04 2.768e-02 8.683e-04 8.683e-04 1.000e+00 6.482e-0 PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.602e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	PLPP3	-3.638144	8.238288e-04	6.990e-02	7.309e-04	7.309e-04	1.000e+00	6.482e-01
PCDHA4 -3.133306 5.185467e-03 1.839e-01 9.370e-04 9.370e-04 1.000e+00 6.602e-0 SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	WIPF3	3.130740	5.230994e-03	1.839e-01	8.800e-04	8.800e-04	1.000e+00	6.482e-01
SPAG5 4.143099 1.027932e-04 2.346e-02 1.191e-03 1.191e-03 1.000e+00 8.042e-0	JAK1	-4.074511	1.383337e-04	2.768e-02	8.683e-04	8.683e-04	1.000e+00	6.482e-01
	PCDHA4	-3.133306	5.185467e-03	1.839e-01	9.370e-04	9.370e-04	1.000e+00	6.602e-01
NCOR1 4.368033 3.761123e-05 1.325e-02 1.333e-03 1.333e-03 1.000e+00 8.643e-0	SPAG5	4.143099	1.027932e-04	2.346e-02	1.191e-03	1.191e-03	1.000e+00	8.042e-01
	NCOR1	4.368033	3.761123e-05	1.325e-02	1.333e-03	1.333e-03	1.000e+00	8.643e-01

Positive Rho Permulated 200 150 50 0.0 0.1 0.2 0.3 0.4 0.5 p Values

Top Positive genes by P-value Permulated



Top Negative genes by P-value Permulated

Gene	Rho	Р	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PTCD3	5.557042	8.231524e-08	4.446e-04	0.000e+00	0.000e+00	1.000e+00	0.000e+00
TMEM116	5.132478	8.578565e-07	1.815e-03	4.020e-04	4.020e-04	1.000e+00	5.371e-01
RIMKLA	3.433569	1.787073e-03	1.078e-01	4.309e-04	4.309e-04	1.000e+00	5.371e-01
RNASE9	3.358547	2.350599e-03	1.204e-01	5.437e-04	5.437e-04	1.000e+00	6.293e-01
ARMT1	4.255301	6.263051e-05	1.720e-02	7.724e-04	7.724e-04	1.000e+00	6.482e-01
WIPF3	3.130740	5.230994e-03	1.839e-01	8.800e-04	8.800e-04	1.000e+00	6.482e-01
SPAG5	4.143099	1.027932e-04	2.346e-02	1.191e-03	1.191e-03	1.000e+00	8.042e-01
NCOR1	4.368033	3.761123e-05	1.325e-02	1.333e-03	1.333e-03	1.000e+00	8.643e-01
TRDMT1	3.013170	7.756032e-03	2.205e-01	1.559e-03	1.559e-03	1.000e+00	9.718e-01
SUPT4H1	2.952927	9.443280e-03	2.441e-01	1.744e-03	1.744e-03	1.000e+00	1.000e+00

Gene	Rho	Р	p.adj	permP	permPValue	qValueNoperm	qValuePerm
ABCB4	-5.054135	1.297036e-06	2.328e-03	2.089e-04	2.089e-04	1.000e+00	5.371e-01
ANXA11	-3.470489	1.558537e-03	1.010e-01	3.019e-04	3.019e-04	1.000e+00	5.371e-01
BDNF	-4.856071	3.592126e-06	3.025e-03	3.280e-04	3.280e-04	1.000e+00	5.371e-01
KLHDC2	-4.495795	2.079314e-05	8.640e-03	3.511e-04	3.511e-04	1.000e+00	5.371e-01
CTNND1	-5.843195	1.536268e-08	1.245e-04	3.830e-04	3.830e-04	1.000e+00	5.371e-01
PKIB	-4.211346	7.615610e-05	1.928e-02	3.882e-04	3.882e-04	1.000e+00	5.371e-01
DHX58	-3.234726	3.652786e-03	1.537e-01	7.034e-04	7.034e-04	1.000e+00	6.482e-01
TBX21	-3.382143	2.157682e-03	1.166e-01	7.248e-04	7.248e-04	1.000e+00	6.482e-01
PLPP3	-3.638144	8.238288e-04	6.990e-02	7.309e-04	7.309e-04	1.000e+00	6.482e-01
CSAD	-3.041026	7.073214e-03	2.131e-01	8.011e-04	8.011e-04	1.000e+00	6.482e-01