

sample_name	productive_frequency	templates	amino_acid
TCL_212_1	88.663		70362 CMRYGNYYWYFDVW
TCL_212_1	9.420		7476 CTRNDGYSKSYFDYW
TCL_212_1	1.072		851 CARRYGSSYWYFDVW
TCL_212_1	0.287		228 CARSYDYVYYYAMDYW
TCL_212_1	0.141		112 CMRYSNYWYFDVW
TCL_212_1	0.134		106 CMRYSSYWYFDVW
TCL_212_1	0.073		58 CAGDYDGYWYFDVW
TCL_212_1	0.050		40 CMRYGSSYWYFDVW
TCL_212_1	0.005		4 CMRYGNYYWYFDVW
TCL_212_1	0.005		4 CAGDSGYWYFDVW
TCL_212_1	0.004		3 CARDDYDGRGFAYW
TCL_212_1	0.004		3 CARLFTTVVDYW
TCL_212_1	0.004		3 CARRYYYGSSYFDYW
TCL_212_1	0.003		2 CARYSNYWYFDVW
TCL_212_1	0.003		2 CAGPLPYWW
TCL_212_1	0.003		2 CARDDDGYLWYFDVW
TCL_212_1	0.003		2 CSYCEDFAYW
TCL_212_1	0.003		2 CARMRYDYAWFAYW
TCL_212_1	0.003		2 CTGWGFDYW
TCL_212_1	0.003		2 CMRYGNYYWYFDVW
TCL_212_1	0.003		2 CMRYGNYYWYFDVW
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TCL_212_1	0.003		2 CARPVGNAMDYW
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TCL_212_1	0.001		1 CARSGYITKGFAYW
TCL_212_1	0.001		1 EDFAYW
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TCL_212_1	0.001		1 CHFSPGRLRYFDVW
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TCL_212_1	0.001	1 CAREIVGLRYAMDYW
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TCL_212_1	0.001	1 CMRYGNYYWYFDVW
TCL_212_1	0.001	1 CMRHSNYWYFDVW
TCL_212_1	0.001	1 CFVGLCEDFAYW
TCL_212_1	0.001	1 CAGWPTREDFAYW
TCL_212_1	0.001	1 CAKRRLYRGDYAMGYW
TCL_212_1	0.001	1 CTRRNDGYKSIFYDYW
total	100.000	79359

rearrangement

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[illegible]

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[illegible]

[illegible]

[illegible]

TCL_221_2	0.001	1 CMRYSNYWYFDVW
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TCL_221_2	0.001	1 CMRYSNYWYFDVW
TCL_221_2	0.001	1 CMRYSNYWYFDVW
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TCL_221_2	0.001	1 CSRDDPVREGFAYW
TCL_221_2	0.001	1 CARPGYYGSSYTFDYW
TCL_221_2	0.001	1 CARRGPYYANYFDYW
total	100	110125

rearrangement

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TCL_D22_3	0.200	151	CALLRYW
TCL_D22_3	0.085	64	CANWDWYFDVW
TCL_D22_3	0.005	4	CMRYSNYWYFDVW
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TCL_D22_3	0.003	2	CMRYSNYWYFDVW
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TCL_D22_3	0.003	2	CMRYSNYWYFDVW
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TCL_D22_3	0.001	1	CMRYSNYWYFDVW
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TCL D22 3	0.001	1	CMRYSNYWYFDVW

TCL_D22_3	0.001	1 CMRYSNYWYFDVW
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TCL_D22_3	0.001	1 CSETRLYSMYFDVW
TCL_D22_3	0.001	1 CSETRLYSRYFDVW
total	100.000	75362

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total	100	94588

rearrangement

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sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TCL1_347_PC	103590	94.957	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_347_PC	5392	4.943	CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGCTACTGGTACTTCGATGTCTGG
TCL1_347_PC	108	0.099	CARLLRYYWYFDVW	TGTGCAAGATTACTACGGTACTACTGGTACTTCGATGTCTGG
TCL1_347_PC	2	0.002	CMRYDSNYWYFDVW	TGTATGAGATATGATAGTAACTACTGGTACTTCGATGTCTGG
total	109092	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TCL1_347_LIVER	134453	99.817	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_347_LIVER	189	0.140	CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGCTACTGGTACTTCGATGTCTGG
TCL1_347_LIVER	58	0.043	CARLLRYWYFDVW	TGTGCAAGATTACTACGGTACTACTGGTACTTCGATGTCTGG
total	134700	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TCL1_347_LNP	117243	98.711	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_347_LNP	1313	1.105	CVREGDRWYFDVW	TGTGTGAGAGAAGGCGACCGGTGGTACTTCGATGTCTGG
TCL1_347_LNP	48	0.040	CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGCTACTGGTACTTCGATGTCTGG
TCL1_347_LNP	40	0.034	CARDYYGNYGYFDVW	TGTGCAAGAGATTACTATGGTAACTACGGGTACTTCGATGTCTGG
TCL1_347_LNP	32	0.027	CARLYGSSYWYFDVW	TGTGCAAGACTTTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TCL1_347_LNP	20	0.017	CASHYYGSSWYFDVW	TGTGCTAGCCATTACTACGGTAGTAGCTGGTACTTCGATGTCTGG
TCL1_347_LNP	18	0.015	CARERDDYDTRYFDVW	TGTGCAAGAGAGAGGGATGATTACGACGGGACAAGGTACTTCGATGTCTGG
TCL1_347_LNP	18	0.015	CMRNGYYYWYFDVW	TGTATGAGAAATGGTTACTACTCTGGTACTTCGATGTCTGG
TCL1_347_LNP	13	0.011	CARLLRYWYFDVW	TGTGCAAGATTACTACGGTACTACTGGTACTTCGATGTCTGG
TCL1_347_LNP	8	0.007	CARLSVDYDGYAMDYW	TGTGCAAGATTGCTCTATGATTACGACGGCTACTATGCTATGGACTACTGG
TCL1_347_LNP	7	0.006	CTRNGYDGFVW	TGTACCAGGAATGGTTACGACGGCTTTGACTACTGG
TCL1_347_LNP	3	0.003	CVYYYGSSYWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TCL1_347_LNP	3	0.003	CMRYGSSYWYFDVW	TGTATGAGATATGGTAGTAGCTACTGGTACTTCGATGTCTGG
TCL1_347_LNP	2	0.002	CARLLRYWYFDVW	TGTGCGAGATTACTACGGTACTACTGGTACTTCGATGTCTGG
TCL1_347_LNP	2	0.002	CATGTETWFAYW	TGTGCAACTGGGACAGAGACCTGGTTTGCTTACTGG
TCL1_347_LNP	1	0.001	CARERDDYDRTRYFDVW	TGTGCAAGAGAGAGGGATGATTACGACAGGACAAGGTACTTCGATGTCTGG
TCL1_347_LNP	1	0.001	CARYGAYDGYWYFDVW	TGTGCAAGATACGGGCTTATGATGGTTACTACTTTGACTACTGG
TCL1_347_LNP	1	0.001	CARSDYYGSSLDYW	TGTGCAAGATCAGATTACTACGGTAGTAGCTCCCTTGACTACTGG
TCL1_347_LNP	1	0.001	CARPDYPAWFAYW	TGTGCAAGGCCCGATTACCCCGCCTGGTTTGCTTACTGG
total	118774	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TCL1_F3_LIVER	191330	99.959	CARIYYGNYYWYFDVW	TGTGCAAGAATCTACTATGGTAAGTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	53	0.028	CVYYYGSSYYWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	8	0.004	CMRYGNYWYFDVW	TGTATGAGATATGGTAAGTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	6	0.003	CMRYSNYYWYFDVW	TGTATGAGATATAGTAAGTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	4	0.002	CMRYGSSYYWYFDVW	TGTATGAGATACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	3	0.002	CVYYYGISYYWYFDVW	TGTGTATATTACTACGGTATTAGCTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	1	0.001	CARSAIYYDYDYWYFDVW	TGTGCAAGATCGGCATCTACTATGATTAGTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	1	0.001	CARRYYGSSYYWYFDVW	TGTGCAAGAAGATACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	1	0.001	CARIYGNYYWYFDVW	TGTGCAAGAATCTACGGTAAGTACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	1	0.001	CTKGYDWWYFDVW	TGCACAAAGGGTTACGACTGGTACTTCGATGTCTGG
TCL1_F3_LIVER	1	0.001	CAREGETVDYW	TGTGCAAGAGAGGGAGAAACGGTTGACTACTGG
total	191409	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TCL1_F3_LNP	171007	99.953	CARIYYGNYWYFDVW	TGTGCAAGAATCTACTATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_F3_LNP	46	0.027	CVYYYGSSYWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TCL1_F3_LNP	14	0.008	CARDYYGSNWYFDVW	TGTGCAAGAGATTACTACGGTAGTAACTGGTACTTCGATGTCTGG
TCL1_F3_LNP	9	0.005	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_F3_LNP	4	0.002	CVYYYGISYWYFDVW	TGTGTATATTACTACGGTATTAGCTACTGGTACTTCGATGTCTGG
TCL1_F3_LNP	3	0.002	CARHGGYWYFDVW	TGTGCAAGACACGGGGGCTACTGGTACTTCGATGTCTGG
TCL1_F3_LNP	2	0.001	CARDYDYKVDYW	TGTGCAAGGGACTATGATTACAAGGTTGACTACTGG
TCL1_F3_LNP	1	0.001	CARRVVARYWYFDVW	TGTGCAAGACGGGTAGTAGCTCGCTACTGGTACTTCGATGTCTGG
TCL1_F3_LNP	1	0.001	CARYDYAFDYW	TGTGCAAGATATGATTACGCCTTTGACTACTGG
total	171087			

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TCL1_F3_BM	207301	99.961	CARIYYGNVWYFDVW	TGTGCAAGAATCTACTATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_F3_BM	54	0.026	CVYYGSSVWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TCL1_F3_BM	9	0.004	CMRYGNVWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_F3_BM	5	0.002	CARDYYGSNWYFDVW	TGTGCAAGAGATTACTACGGTAGTAACTGGTACTTCGATGTCTGG
TCL1_F3_BM	4	0.002	CATAYW	TGTGCAACTGCTTACTGG
TCL1_F3_BM	3	0.001	CVYYGIVWYFDVW	TGTGTATATTACTACGGTATTAGCTACTGGTACTTCGATGTCTGG
TCL1_F3_BM	2	0.001	YCARIYYGNVWYFDVW	TACTGTGCAAGAATCTACTATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_F3_BM	1	0.000	CARSGVYGSSLYWYFDVW	TGTGCAAGATCGGGGGTCTACGGTAGTAGCCTTTACTGGTACTTCGATGTCTGG
TCL1_F3_BM	1	0.000	CASHDYGGSSVWYFDVW	TGTGCAAGCCACGATTACTACGGTAGTAGCTGGTACTTCGATGTCTGG
TCL1_F3_BM	1	0.000	CARYGYGSSVWYFDVW	TGTGCAAGATACGGTTACGGTAGTAGCTACGGGTACTTCGATGTCTGG
TCL1_F3_BM	1	0.000	CARGGFSNVVRYFDVW	TGTGCAAGAGGGGGATTAGTAACTACGTGAGGTACTTCGATGTCTGG
total	207382	100		

sample_name	templates	productive_frequency	aaSeqCDR3
TCL1_221_PC	135870	91.369	CMRYSNYWYFDVW
TCL1_221_PC	4092	2.752	CARRYGSSYWYFDVW
TCL1_221_PC	2223	1.495	CARPGYGGSSYTFDYW
TCL1_221_PC	2005	1.348	CAGDRYGWYFDVW
TCL1_221_PC	1219	0.820	CARFYYGSSYAMDYW
TCL1_221_PC	1170	0.787	CMRYGSSYWYFDVW
TCL1_221_PC	976	0.656	CAREGGSYWYFDVW
TCL1_221_PC	367	0.247	CAGDYDGYWYFDVW
TCL1_221_PC	244	0.164	CARYYGSSYWFAYW
TCL1_221_PC	221	0.149	CARDYSNWYFDVW
TCL1_221_PC	55	0.037	CTTMVNW
TCL1_221_PC	43	0.029	CARPGYGGSSYWYFDVW
TCL1_221_PC	43	0.029	CARRYGSSYTFDYW
TCL1_221_PC	28	0.019	CAGDRSGYTGfAYW
TCL1_221_PC	21	0.014	CAGDRLGYWYFDVW
TCL1_221_PC	18	0.012	CARRYGSSYAMDYW
TCL1_221_PC	17	0.011	CARYYSSYWFAYW
TCL1_221_PC	12	0.008	CARWGTGHFDYW
TCL1_221_PC	11	0.007	CARFYYGSSYWYFDVW
TCL1_221_PC	9	0.006	CARPGYGGSSYAMDYW
TCL1_221_PC	9	0.006	CARYYGSSYWYFDVW
TCL1_221_PC	9	0.006	CARYKRTGTDYW
TCL1_221_PC	6	0.004	CARFYYGSSYTFDYW
TCL1_221_PC	5	0.003	CARRYGSSYWFAYW
TCL1_221_PC	5	0.003	CARRYGSSfAYW
TCL1_221_PC	4	0.003	CTRDLDGYWYYYAMDYW
TCL1_221_PC	4	0.003	CARPGYGGSSYWFAYW
TCL1_221_PC	4	0.003	CARFYYGSSfAYW
TCL1_221_PC	3	0.002	CAGDPYGWYFDVW
TCL1_221_PC	2	0.001	LTSEDSAVYVCARPGYGGSSYTFDYW
TCL1_221_PC	2	0.001	CARVGLDYDEGYFDYW
TCL1_221_PC	2	0.001	CARRYGSSYTFDYR
TCL1_221_PC	2	0.001	CAGDRSGYTGfAYW
TCL1_221_PC	1	0.001	CARGLITTVVDWYFDVW
TCL1_221_PC	1	0.001	CAGDRYSNWYFDVW
TCL1_221_PC	1	0.001	CARYYGSSfAYW
TCL1_221_PC	1	0.001	SARCLWYFDYW
total	148705	100	

clonalSequence

TGTATGAGATATAGTAAGTAACTACTGGTACTTCGATGTCTGG
TGTGCAAGAAGATACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TGTGCAAGACCGGGTACTACGGTAGTAGCTACACGTTTGACTACTGG
TGTGCAGGAGACAGATATGGTTACTGGTACTTCGATGTCTGG
TGTGCAAGATTTTATTACTACGGTAGTAGCTATGCTATGGACTACTGG
TGTATGAGATACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TGTGCTAGAGAAGGTGGTTACAGCTACTGGTACTTCGATGTCTGG
TGTGCAGGAGACTATGATGGTTACTGGTACTTCGATGTCTGG
TGTGCAAGATACTACGGTAGTAGCTACTGGTTTGCTTACTGG
TGTGCCAGAGACTATAGTAAGTAACTACTGGTACTTCGATGTCTGG
TGTACCACTATGGTTAACTGG
TGTGCAAGACCGGGTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TGTGCAAGAAGATACTACGGTAGTAGCTACACGTTTGACTACTGG
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TGTGCAGGAGACAGACTGGGCTACTGGTACTTCGATGTCTGG
TGTGCAAGAAGATACTACGGTAGTAGCTATGCTATGGACTACTGG
TGTGCAAGATACTACGTTAGTAGCTACTGGTTTGCTTACTGG
TGTGCAAGATGGGGACGGGACACTACTTTGACTACTGG
TGTGCAAGATTTTATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TGTGCAAGACCGGGTACTACGGTAGTAGCTATGCTATGGACTACTGG
TGTGCAAGATACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TGTGCAAGATATAAGCGAACTGGGACGAAGGACTACTGG
TGTGCAAGATTTTATTACTACGGTAGTAGCTACACGTTTGACTACTGG
TGTGCAAGAAGATACTACGGTAGTAGCTACTGGTTTGCTTACTGG
TGTGCAAGAAGATACTACGGTAGTAGCTTTGCTTACTGG
TGTACAAGAGACCTTGATGGTTACTACTGGTATTACTATGCTATGGACTACTGG
TGTGCAAGACCGGGTACTACGGTAGTAGCTACTGGTTTGCTTACTGG
TGTGCAAGATTTTATTACTACGGTAGTAGCTTTGCTTACTGG
TGTGCAGGAGACCTTATGGTTACTGGTACTTCGATGTCTGG
CTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGACCGGGTACTACGGTAGTAGCTACACGTTTGACTACTGG
TGTGCAAGAGTAGGGCTCTATGATTACGACGAGGGTTACTTTGACTACTGG
TGTGCAAGAAGATACTACGGTAGTAGCTACACGTTTGACTACAGG
TGTGCTGGAGACAGATCGGGCTATACGGGGTTTGCTTACTGG
TGTGCAAGAGGAACCTAATTACTACGGTAGTAGCTGGTACTTCGATGTCTGG
TGTGCAGGAGACAGATATAGTAAGTAACTACTGGTACTTCGATGTCTGG
TGTGCAAGATACTACGGTAGTAGCTTTGCTTACTGG
TCTGCAAGATGTCTATGGTACTTTGACTACTGG

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TCL1_221_LNP	113932	95.748	CMRYSNYWYFDVW	TGTATGAGATATAGTAACTACTGGTACTTCGATGTCTGG
TCL1_221_LNP	4540	3.815	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TCL1_221_LNP	517	0.434	CMRYGSSYWYFDVW	TGTATGAGATATGGTAGTAGTACTGGTACTTCGATGTCTGG
TCL1_221_LNP	2	0.002	CVRHTVWNLQCEPRHKPP	TGTGTGAGACACACAGTGTGGAATCTTCAGTGTGAGCCTAGACACAAACCTCCA
total	118991	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_Q82_PC	118494	98.428	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_Q82_PC	1754	1.457	CVYYGSSYWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_Q82_PC	117	0.097	CARKGNYWYFDVW	TGTGCAAGGAAGGGTAACTACTGGTACTTCGATGTCTGG
TX_Q82_PC	4	0.003	CAGDYDGYWYFDVW	TGTGCAGGAGACTATGATGGTACTGGTACTTCGATGTCTGG
TX_Q82_PC	4	0.003	CARRHYGSSPLAYW	TGTGCAAGACGGCACTACGGTAGTAGCCCCCTTGCTTACTGG
TX_Q82_PC	3	0.002	CAKIYYGSSYAMDYW	TGTGCAAAAATTTATTACTACGGTAGTAGCTATGCTATGGACTACTGG
TX_Q82_PC	3	0.002	CARIYYGSSYAMDYW	TGTGCAAGATATTACTACGGTAGTAGCTATGCTATGGACTACTGG
TX_Q82_PC	3	0.002	CARYGLLWYWYFDVW	TGTGCAAGATATGGACTACTATGGTACTGGTACTTCGATGTCTGG
TX_Q82_PC	3	0.002	CAREGYFFAYW	TGTGCAAGGGAGGATGGTTACTACTTTGCTTACTGG
TX_Q82_PC	2	0.002	CAKRAQATGSFAYW	TGTGCCAAACGGGCTCAGGCTACGGGGTCGTTTGCTTACTGG
total	120387	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_Q82_LIVER	55669	99.778	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_Q82_LIVER	105	0.188	CVYYGSSYWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_Q82_LIVER	10	0.018	CVYYGSSYWYFDVW	TGTGTATATTACTACGGTAGTAGTACTGGTACTTCGATGTCTGG
TX_Q82_LIVER	9	0.016	CVYYGISYWYFDVW	TGTGTATATTACTACGGTATTAGCTACTGGTACTTCGATGTCTGG
total	55793	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_Q83_PC	105153		99.816 CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_Q83_PC	190		0.180 CVYYGSSYWYFDVW	TGTGTATATTACTACGGTAGCTACTGGTACTTCGATGTCTGG
TX_Q83_PC	3		0.003 CARGMITRYAMDYW	TGTGCAAGGGGATGATTACAGGTATGCTATGGACTACTGG
TX_Q83_PC	1		0.001 CAREGGYSYWYFDVW	TGTGCTAGAGAAGGTGGTTACAGCTACTGGTACTTCGATGTCTGG
total	105347		100	

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_702_PC	181594		97.539 CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_702_PC	4431		2.380 CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGCTACTGGTACTTCGATGTCTGG
TX_702_PC	58		0.031 CMRYNSNYWYFDVW	TGTATGAGATATAATAGTAACTACTGGTACTTCGATGTCTGG
TX_702_PC	50		0.027 CARRHYGSSYAMDYW	TGTGCAAGAAGGCATTACTACGGTAGTTACTATGCTATGGACTACTGG
TX_702_PC	23		0.012 CARRDYGSSYWYFDVW	TGTGCAAGAAGGGACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_702_PC	7		0.004 CARDDGYDYW	TGTGCAAGAGATGATGGTTACTACGACTACTGG
TX_702_PC	4		0.002 CAREIITVVWYFDVW	TGTGCAAGAGAGGAGATTACTACGGTAGTGGACTGGTACTTCGATGTCTGG
TX_702_PC	3		0.002 CAGDITTVVATWSYWYFDVW	TGTGCAGGAGACATTACTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
TX_702_PC	3		0.002 CARLAYGSSQGYAMDYW	TGTGCAAGATTAGCCTACGGTAGTAGCCAGGGGTATGCTATGGACTACTGG
tX_702_PC	2		0.001 CARLYSNYW	TGTGCAAGACTCTATAGTAACTACTGG
TX_702_PC	1		0.001 CTRSGYVYGAWFAYW	TGTACCAGGAGTGGTTACTACGTTGGGGCCTGGTTTGCTTACTGG
total	186176		100	

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_702_LIVER	123451	99.901	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGCTCTGG
TX_702_LIVER	49	0.040	CARLYYGSSYWYFDVW	TGTGCCCGCCTTTACTACGGTAGTAGCTACTGGTACTTCGATGCTCTGG
TX_702_LIVER	40	0.032	CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGCTACTGGTACTTCGATGCTCTGG
TX_702_LIVER	17	0.014	CAREYGSSYDWYFDVW	TGTGCAAGAGAGTACGGTAGTAGCTACGACTGGTACTTCGATGCTCTGG
TX_702_LIVER	6	0.005	CTPYYGSSYIAYW	TGTACCCCATATTACTACGGTAGTAGCTACATTGCTTACTGG
TX_702_LIVER	5	0.004	CVYYYGSSYWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGCTCTGG
TX_702_LIVER	5	0.004	CAREVTGAYYFDYW	TGTGCAAGAGAGGTAAGTGGGGCTTACTACTTTGACTACTGG
total	123573	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_702_BM	180472	99.605	CMRYGNYWYFDVW	TGTATGAGATATGGTAACACTACTGGTACTTCGATGTCTGG
TX_702_BM	219	0.121	CVRGGSSLYWYFDVW	TGTGTGAGAGGTGGCGGTAGTAGCCTCTACTGGTACTTCGATGTCTGG
TX_702_BM	163	0.090	CTRGYYIWYFDVW	TGTACAAGAGGGTATTACTACATCTGGTACTTCGATGTCTGG
TX_702_BM	75	0.041	CTTRYGIDWYFDVW	TGTACTACAGGGCGGTATGGTATCGACTGTACTTCGATGTCTGG
TX_702_BM	66	0.036	CARRAYGSSSRFDYW	TGTGCAAGAAGAAGGGGTACGGTAGTAGTCACGCTTTGACTACTGG
TX_702_BM	39	0.022	CAKHGYWYFDVW	TGTGCCAAACATGGTTACTACTGGTACTTCGATGTCTGG
TX_702_BM	39	0.022	CAGFDVW	TGTGCGGGGTTCTGATGTCTGG
TX_702_BM	30	0.017	CARNYGSYFDYW	TGTGCAAGAAATTAACGGTAGTAGCTACTTTGACTACTGG
TX_702_BM	22	0.012	CARLLRYWYFDVW	TGTGCAAGATTACTACGGTACTACTGGTACTTCGATGTCTGG
TX_702_BM	13	0.007	CARTPRRQLLRIMYAMDYW	TGTGCAAGAACCCTCCGAGGAGACAATTACTACGGATTTATGCTATGGACTACTGG
TX_702_BM	10	0.006	CAGDYDGYWYFDVW	TGTGCAGGAGACTATGATGTTACTGGTACTTCGATGTCTGG
TX_702_BM	6	0.003	CARNKDDYAMDYW	TGTGCCAGAAATAAGGATGATTACTATGCTATGGACTACTGG
TX_702_BM	5	0.003	CARTMGDYDEGDYW	TGTGCCAGAACGATGGGGGATTACGACGAAGGGGACTACTGG
TX_702_BM	4	0.002	CASEDYGSYFSYYAMDYW	TGTGCAAGCGAGGATTACTACGGTAGTAGCTACTTTTCTTACTATGCTATGGACTACTGG
TX_702_BM	4	0.002	CARPTITTVANWYFDVW	TGTGCAAGATTCCCGATTACTACGGTAGTAGCTAACTGGTACTTCGATGTCTGG
TX_702_BM	4	0.002	CARRVGTSPYFDYW	TGTGCAAGACGGGTGGGACGTCCCCCTACTTTGACTACTGG
TX_702_BM	4	0.002	CATTTVVSFDYW	TGTGCAACTACTACGGTAGTTTCTTTGACTACTGG
TX_702_BM	3	0.002	CARWGGGNFWYFDVW	TGTGCAAGATGGGGTGGGGGTACTTCTGGTACTTCGATGTCTGG
TX_702_BM	2	0.001	CARWAIYGNWYFDVW	TGTGCAAGATGGGCGATCTACTATGGTAACTACGACTGGTACTTCGATGTCTGG
TX_702_BM	2	0.001	CARSPYYSNPHAMDYW	TGTGCAAGATCTCCTCCCTACTATAGTAAACCCCATGCTATGGACTACTGG
TX_702_BM	1	0.001	CARTPRRQLLRIMYAMDYW	TGTGCAAGAACCCCTCCGAGGAGACAATTACTACGGATGTATGCTATGGACTACTGG
TX_702_BM	1	0.001	CARGGYYPYAMDYW	TGTGCAAGAGGGGGGTATTACTACGGTCCTTATGCTATGGACTACTGG
TX_702_BM	1	0.001	CARLLRYWCFDVW	TGTGCAAGATTACTACGGTACTACTGGTCTTCGATGTCTGG
TX_702_BM	1	0.001	CARGGFAYW	TGTGCAAGGGGGGGTTTGCTTACTGG
TX_702_BM	1	0.001	CVGFDVW	TGTGTGGGGTTCTGATGTCTGG
total	181187	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_Q67_LIVER	21719	57.008	CMRYGNYWYFDVW	TGTATGAGATATGGTAAGTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	12267	32.199	CARSDYYGSSLDYW	TGTGCAAGATCAGATTACTACGGTAGTAGTCCCTTGACTACTGG
TX_Q67_LIVER	1026	2.693	CMRYSNYWYFDVW	TGTATGAGATATAGTAACTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	1023	2.685	CMRYDGYWYFDVW	TGTATGAGATATGATGGTACTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	808	2.121	CMRYNSNYWYFDVW	TGTATGAGATATAATAGTAACTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	719	1.887	CMRYGSSYWYFDVW	TGTATGAGATACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	354	0.929	CARKEGNYGSSWYFDVW	TGTGCAAGAAAGGAGGGAAATTACTACGGTAGTAGCTGGTACTTCGATGTCTGG
TX_Q67_LIVER	64	0.168	CASSRGLRLHYFDYW	TGTGCAAGCTCGAGGGGGCTCAGGCTCCACTACTTTGACTACTGG
TX_Q67_LIVER	55	0.144	CARWGRDSSGYFDYW	TGTGCAAGATGGGGGAGGGACAGCTCAGGCTACTTTGACTACTGG
TX_Q67_LIVER	14	0.037	CARSYGSNWFAYW	TGTGCAAGATCCTACGGTAGTAACTGGTTTGCTTACTGG
TX_Q67_LIVER	12	0.031	CAGDITTVATWSYWYFDVW	TGTGCAGGAGACATTACTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	10	0.026	CARNWAGDYAMDYW	TGTGCAAGGAAGTGGGCCGGGGACTATGCTATGGACTACTGG
TX_Q67_LIVER	2	0.005	CARKEGNYGSSLDYW	TGTGCAAGAAAGGAGGGAAATTACTACGGTAGTAGCTCCCTTGACTACTGG
TX_Q67_LIVER	2	0.005	CARSDYYGSSWYFDVW	TGTGCAAGATCAGATTACTACGGTAGTAGCTGGTACTTCGATGTCTGG
TX_Q67_LIVER	2	0.005	CARYYYDYDWYFDVW	TGTGCAAGATACTACTATGATTACGACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	2	0.005	CARKVPHGYFDVW	TGTGCAAGAAAAGTACCTCAGGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CARHHPIRDYGYWYFDVW	TGTGCAAGACACCCCAATACGGGACTACGGTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CARGTSYYDYGWYFDVW	TGTGCAAGAGGGACCTCCTACTATGATTACGACGGATGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CARSSFYGSSYNWYFDVW	TGTGCAAGAAAGCTCCTTCTACGGTAGTAGCTACAAGTGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CASMVTRSYWYFDVW	TGTGCCTCTATGTTTACGAGGAGCTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CARRDSNSYWYFDVW	TGTGCAAGACGGGATAGTAACTCCTACTGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CARDLTGTRWYFDVW	TGTGCAAGAGATCTAACTGGGACGAGGTGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CAGDTDGYFGAYW	TGTGCAGGAGACCCGATGGTTACTTCGGTTTGCTTACTGG
TX_Q67_LIVER	1	0.003	CARKEITTYGFDVW	TGTGCAAGAAAGGAGATTACTACGGGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CAKAYGSSPLFDYW	TGTGCAAGGGCTTACGGTAGTAGCCCTCTTTTGGTACTACTGG
TX_Q67_LIVER	1	0.003	CARSLHGNFYDYW	TGTGCAAGATCCCTACATGGTAACTTTGACTACTGG
TX_Q67_LIVER	1	0.003	CAREAIPSYFDYW	TGTGCAAGAGAGGCAATACCGAGCTACTTTGACTACTGG
TX_Q67_LIVER	1	0.003	CVRGYSWYFDVW	TGTGTGAGAGGTTACTCCTGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CAGGQGYFYDYW	TGTGCTGGGGACAGGGCTACTACTTTGACTACTGG
TX_Q67_LIVER	1	0.003	CARATVVAFDYW	TGTGCTAGAGCGACGGTAGTAGCTTTTGGTACTACTGG
TX_Q67_LIVER	1	0.003	CARAFDGYLDYW	TGTGCAAGAGCGTTTGATGTTATCTTGACTACTGG
TX_Q67_LIVER	1	0.003	CARDQAYAMDYW	TGTGCAAGAGATCAGGCGTAGTGCTATGGACTACTGG
TX_Q67_LIVER	1	0.003	CARRSGYFDVW	TGTGCAAGAAAGTCCGGGTACTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CARAGNFDVW	TGTGCAAGGGCGGGGAACCTTCGATGTCTGG
TX_Q67_LIVER	1	0.003	CARGGYFDVW	TGTGCAAGGGGAGGGTACTTCGATGTCTGG
total	38098	100.000		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_Q67_LNP	8268	99.232	CARSDYYGSSSLDYW	TGTGCAAGATCAGATTACTACGGTAGTAGCTCCCTTGACTACTGG
TX_Q67_LNP	31	0.372	CMRYGNVWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_Q67_LNP	10	0.120	CAGDITTVVATWSYWFVW	TGTGCAGGAGACATTACTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
TX_Q67_LNP	7	0.084	CMRYSNVWYFDVW	TGTATGAGATATAGTAACTACTGGTACTTCGATGTCTGG
TX_Q67_LNP	5	0.060	CARTAVYYDYAWFAYW	TGTGCAAGAACGGCGGTCTACTATGATTACGCCTGGTTTGCTTACTGG
TX_Q67_LNP	2	0.024	CASMVTRSYWYFDVW	TGTGCCTCTATGGTTACGAGGAGCTACTGGTACTTCGATGTCTGG
TX_Q67_LNP	1	0.012	CASFGTTNWYFDVW	TGTGCAAGCTTCGGGACTACGAACGTGGTACTTCGATGTCTGG
TX_Q67_LNP	1	0.012	CARDGGYSDFDYW	TGTGCAAGAGATGGGGTTACTCGGACTACTTTGACTACTGG
TX_Q67_LNP	1	0.012	CAIHYYGSSLDYW	TGTGCAATTCTATTACTACGGTAGTAGCCTTGACTACTGG
TX_Q67_LNP	1	0.012	CAREVGQGGLDYW	TGTGCAAGGGAAGTGGGACAAGGGGGACTGGACTACTGG
TX_Q67_LNP	1	0.012	CARGGLYDGFYW	TGTGCAAGAGGGGGGCTATATGATGGTTTTGACTACTGG
TX_Q67_LNP	1	0.012	CARRGLLSHFDYW	TGTGCAAGAAGAGGACTACTATCCCACITTTGACTACTGG
TX_Q67_LNP	1	0.012	CARHPSGHFDYW	TGTGCAAGACATCCTTCAGGCCACTTTGACTACTGG
TX_Q67_LNP	1	0.012	CTNYDYDCW	TGCACAACTATGATTACGACTGCTGG
TX_Q67_LNP	1	0.012	CARHLHYW	TGTGCAAGACATCTTCACTACTGG
total	8332	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_P42	178685	99.868	CMRYSNYWYFDVW	TGTATGAGATATAGTAACTACTGGTACTTCGATGTCTGG
TX_P42	150	0.084	CAGDYDGYWYFDVW	TGTGCAGGAGACTATGATGGTTACTGGTACTTCGATGTCTGG
TX_P42	69	0.039	CARRHYGSIYAMDYVW	TGTGCAAGAAGCATTACTACGGTAGTTACTATGCTATGGACTACTGG
TX_P42	9	0.005	CMRYGSSYWYFDVW	TGTATGAGATATGGTAGCTACTGGTACTTCGATGTCTGG
TX_P42	8	0.004	CAGDITTVVATWSYWYFDVW	TGTGCAGGAGACATTACTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
total	178921	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_P43	162746	99.572	CMRYSNYWYFDVW	TGTATGAGATATAGTAACTACTGGTACTTCGATGTCTGG
TX_P43	619	0.379	CAGDYDGYWYFDVW	TGTGCAAGAGACTATGATGGTACTGGTACTTCGATGTCTGG
TX_P43	62	0.038	CARRHYGSSYYAMDYW	TGTGCAAGAAGGCATTACTACGGTAGTTACTATGCTATGGACTACTGG
TX_P43	7	0.004	CAGDITTVVATWSYWFDA	TGTGCAAGAGACATTACTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
TX_P43	7	0.004	CARIYGNWYFDVW	TGTGCAAGAATCTACTATGGTAACTACTGGTACTTCGATGTCTGG
TX_P43	3	0.002	CMRYGSSYWYFDVW	TGTATGAGATATGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_P43	1	0.001	CMSYSNYWYFYVR	TGTATGAGTTATAGTAACTACTGGTACTTCTATGTCCGG
total	163445		100	

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_CD92	167606	99.961	CMRYGMYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_CD92	53	0.032	CARRHYGSYYAMDYW	TGTGCAAGAAGGCATTACTACGGTAGTACTATGCTATGGACTACTGG
TX_CD92	8	0.005	CAGDITTVVATWSYWFYD	TGTGCAGGAGACATTACTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
TX_CD92	3	0.002	CMRYGSSYWYFDVW	TGTATGAGATATGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_CD92	1	0.001	CVYYGSSYWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
total	167671	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_CD95	98126	90.753	CAGDITVVATWSYWYFDVW	TGTGCAGGAGACATTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
TX_CD95	9935	9.189	CMRYGNYWYFDVW	TGTATGAGATATGGTAACCTAGGTACTTCGATGTCTGG
TX_CD95	38	0.035	CARRHYGSSYYAMDYW	TGTGCAAGAAGGCATTACTACGGTAGTTACTATGCTATGGACTACTGG
TX_CD95	22	0.020	CATRGYGSSYEGYFDYW	TGTGCAACGAGGGGCTACGGTAGTAGCTACGAGGGCTACTTTGACTACTGG
TX_CD95	2	0.002	CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGCTACTGGTACTTCGATGTCTGG
TX_CD95	1	0.001	CAGDITVVATWSYWYFDVW	TGTGCAGGAGACATTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
total	108124	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_Q82	129970	99.012	CMRYGNYWYFDVW	TGTATGAGATATGGTAAGTACTGGTACTTCGATGTCTGG
TX_Q82	1267	0.965	CYYYGSSWYFDVW	TGTGTATATTACTACGGTAGTACTGGTACTTCGATGTCTGG
TX_Q82	14	0.011	CARIYGNWYFDVW	TGTGCAAGAATCTACTATGGTAAGTACTGGTACTTCGATGTCTGG
TX_Q82	5	0.004	CAKTGAGYFDVW	TGTGCCAAAAGTGGGCGGGTACTTCGATGTCTGG
TX_Q82	4	0.003	CAGDRWGWYFDVW	TGTGCAGGAGACAGATGGGGTACTGGTACTTCGATGTCTGG
TX_Q82	3	0.002	CARLTIRITVDYAMDYW	TGTGCAAGATTGACGATTCGGATTACTACGGTAGTAGATTACTATGCTATGGACTACTGG
TX_Q82	2	0.002	CARRGDGYFDYW	TGTGCAAGAAGGGGGGATGGTTACTACTTTGACTACTGG
TX_Q82	1	0.001	TLYLQMSWVSEDTATYFCMRYGI	ACCCTGTACTGCGAGATGAGCAATGTGCGATCGAGGACACAGCCACGTATTTCTGTATGAGATATGGTAAGTACTGGAACTTCGATGTCTGG
TX_Q82	1	0.001	LRYGNYWYFDVW	TTGAGATATGGTAAGTACTGGTACTTCGATGTCTGG
total	131267	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_Q83	148869	99.774	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_Q83	329	0.221	CVYYGSSYWYFDVW	TGTGTATATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_Q83	4	0.003	CARSGWDKGFAYW	TGTGCAAGATCGGGCTGGGACAAGGGGTTTGCTTACTGG
TX_Q83	3	0.002	CMRYGSSYWYFDVW	TGTATGAGATACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_Q83	1	0.001	CLTGTGDYFDYW	TGTCTAACTGGGACCGGGGACTACTTTGACTACTGG
total	149206	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_O9	16899	55.833	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_O9	9550	31.553	CARSDYGGSSLDYW	TGTGCAAGATCAGATTACTACGGTAGTAGCTCCCTTGACTACTGG
TX_O9	3131	10.345	CARLYGSSYWYFDVW	TGTGCCCGCCTTTACTACGGTAGTAGTACTGGTACTTCGATGTCTGG
TX_O9	599	1.979	CARLYGSSLDYW	TGTGCAAGATCAGATTACTACGGTAGTAGTACTTCGATGTCTGG
TX_O9	47	0.155	CARLYGSSLDYW	TGTGCCCGCCTTTACTACGGTAGTAGTACTTCGATGTCTGG
TX_O9	17	0.056	CARSDYGGSSYWYFDVW	TGTGCAAGATCAGATTACTACGGTAGTAGTACTGGTACTTCGATGTCTGG
TX_O9	10	0.033	CMRYGSSYWYFDVW	TGTATGAGATATGGTAGTAGTACTGGTACTTCGATGTCTGG
TX_O9	8	0.026	CMRYGSSYWYFDVW	TGTATGAGATACGGTAGTAGTACTGGTACTTCGATGTCTGG
TX_O9	3	0.010	CAGDRWGYWYFDVW	TGTGCAAGATCAGATTACTACGGTAGTAGTACTTCGATGTCTGG
TX_O9	1	0.003	CTRRVYGGSSLYYAMDYW	TGTACCAAGGCGGTTTATTACTACGGTAGTAGCTATATTACTATGCTATGGACTACTGG
TX_O9	1	0.003	CARSDYGGSSYWYLDVW	TGTGCAAGATCAGATTACTACGGTAGTAGTACTGGTACTTCGATGTCTGG
TX_O9	1	0.003	CTRSDYGGSSYWYFDVW	TGTACCAAGATCAGATTACTACGGTAGTAGTACTGGTACTTCGATGTCTGG
total	30267	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_O11	13477	98.936	CARSDYYGSSSLDYW	TGTGCAAGATCAGATTACTACGGTAGTAGCTCCCTTGACTIONCTGG
TX_O11	53	0.389	CMRYSNYWYFDVW	TGTATGAGATATAGTAACTACTGGTACTTCGATGTCTGG
TX_O11	35	0.257	CARLYYGSSYWYFDVW	TGTGCCCCGCTTTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_O11	19	0.139	CMRYGSSYWYFDVW	TGTATGAGATACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_O11	16	0.117	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_O11	10	0.073	CMRYGSSYWYFDVW	TGTATGAGATATGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_O11	8	0.059	CASGGKGYAMDYW	TGTGCTAGTGGGGTAAAGGCTATGCTATGGACTACTGG
TX_O11	4	0.029	CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGCTACTGGTACTTCGATGTCTGG
total	13622	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_642	8196	58.058	CARSDYYGSSSLDYW	TGTGCAAGATCAGATTACTACGGTAGTAGCTCCCTTGACTACTGG
TX_642	5244	37.147	CMRYGNYWYFDVW	TGTATGAGATATGGTAAGTACTGGTACTTCGATGTCTGG
TX_642	213	1.509	CARDPYYYGSSYWFYDVW	TGTGCAAGAGATCCCTATTATTACTACGGTAGTAGCTACTGGTACTTCGATGTCTGG
TX_642	111	0.786	CTELLRYTDYW	TGCACAGAATTACTACGGTACACTGACTACTGG
TX_642	107	0.758	CARHEGGDYDYDSWYFDVW	TGTGCAAGACACGAAGGAGGCGACTATGATTACGACTCTTGATCTCGATGTCTGG
TX_642	87	0.616	CARERYYYGSNYFDYW	TGTGCAAGAGAGAGGTATTACTACGGTAGTAAGTACTTTGACTACTGG
TX_642	86	0.609	CARSLIGTYGYFDYW	TGTGCAAGATCAGGGCTAATTGGGACGGGTACTTTGACTACTGG
TX_642	29	0.205	CARGGYYSFDYW	TGTGCAAGAGGTGGTTACTACTCCTTTGACTACTGG
TX_642	18	0.128	CVRAYDGYVVGIIYAMDYW	TGTGTGAGGGGCTATGATGGTTACTACGTAGGGATTACTATGCTATGGACTACTGG
TX_642	6	0.043	CAGDITVYVATWSYWFYDVW	TGTGCAGGAGACATTACTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
TX_642	2	0.014	CARSGGYYSYGYFDVW	TGTGCAAGATCAGGGGGTTATTACTACGGTAGTAGCTACGGGTACTTCGATGTCTGG
TX_642	2	0.014	CARGGYDYDGGAWFTYW	TGTGCAAGAGGGGGCTACTATGATTACGACGGGGGGCCTGGTTACTACTGG
TX_642	2	0.014	CARRGTGTGYFDYW	TGTGCAAGACGGGGAACTGGGACGGGTACTTTGACTACTGG
TX_642	2	0.014	CARGGYNGAMDYW	TGTGCAAGAGGGGGGTATGGTAATGGGGCTATGGACTACTGG
TX_642	1	0.007	CARSHYYSYPLYWFYDVW	TGTGCAAGATCACATTACTACGGTAGTAGCTACCCCTCTACTGGTACTTCGATGTCTGG
TX_642	1	0.007	CARHVEGSSYVGYFDVW	TGTGCCAGACATGTTGAGGGTAGTAGCTACGTAGGGTACTTCGATGTCTGG
TX_642	1	0.007	CARDPRGSSSGSFDYW	TGTGCAAGAGATCCCCGGGTAGTAGCTCTGGTTCTTTGACTACTGG
TX_642	1	0.007	CVRMNYGSRHFDVW	TGTGTGAGAGTGAATTACTACGGTAGTAGGCACCTTCGATGTCTGG
TX_642	1	0.007	CARGYDSNWFYDVW	TGTGCAAGAGGCTATGATAGTAAGTGGTACTTCGATGTCTGG
TX_642	1	0.007	CARSGNWFYDVW	TGTGCAAGATCCGGTAAGTACTGGTACTTCGATGTCTGG
TX_642	1	0.007	CARGGLRYFDYW	TGTGCAAGAGGGGGATTACTACGGTACTTTGACTACTGG
TX_642	1	0.007	CVRGYSWFYDVW	TGTGTGAGAGGTTACTCTGGTACTTCGATGTCTGG
TX_642	1	0.007	CAREGTWYFDVW	TGTGCAAGAGAGGGGACCTGGTACTTCGATGTCTGG
TX_642	1	0.007	CTRRWWYFDVW	TGTACCAAGCGATGGTGGTACTTCGATGTCTGG
TX_642	1	0.007	CARTPYFDYW	TGTGCAAGAACCCCTTACTTTGACTACTGG
TX_642	1	0.007	CAREYFDYW	TGTGCAAGGGAATCTTTGACTACTGG
total	14117	100		

sample_name	templates	productive_frequency	aaSeqCDR3	clonalSequence
TX_702	203247	99.900	CMRYGNYWYFDVW	TGTATGAGATATGGTAACACTACTGGTACTTCGATGTCTGG
TX_702	102	0.050	CANFLGGFDVW	TGTGCAAAATTCCTAGGGGGCTTCGATGTCTGG
TX_702	61	0.030	CARRHYGSIYAMDYW	TGTGCAAGAAGGCATTACTACGGTAGTTACTATGCTATGGACTACTGG
TX_702	10	0.005	CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGCTACTGGTACTTCGATGTCTGG
TX_702	8	0.004	CTGRSYGFAYW	TGTACAGGCGGGCTTACGGGTTTGCTTACTGG
TX_702	7	0.003	CARGDYGSSLWYFDVW	TGTGCAAGAGGGGATTACTACGGTAGTAGCCTCTGGTACTTCGATGTCTGG
TX_702	5	0.002	CARRYSNYAMDYW	TGTGCAAGAAGGTATAGTAACACTATGCTATGGACTACTGG
TX_702	4	0.002	CAGDITTVVATWSYWYFDVW	TGTGCAGGAGACATTACTACGGTAGTAGCTACGTGGAGCTACTGGTACTTCGATGTCTGG
TX_702	3	0.001	CARLLRYYWYFDVW	TGTGCAAGATTACTACGGTACTACTGGTACTTCGATGTCTGG
TX_702	3	0.001	CRVDTTGGDCW	TGTAGAGTGGATACCACGGCGGGGACTGCTGG
total	203450	100		

sample_name	templates	productive_frequer	aaSeqCDR3	clonalSequence
TX_703	175291	99.979	CMRYGNYWYFDVW	TGTATGAGATATGGTAACTACTGGTACTTCGATGTCTGG
TX_703	26	0.015	CARRHYYSYYAMDYW	TGTGCAAGAAGGCATTACTACGGTAGTTACTATGCTATGGACTACTGG
TX_703	5	0.003	CTTWGNW	TGTACCACTGGGGGAAGTGG
TX_703	3	0.002	CARRAYWYFDVW	TGTGCAAGAAGGGCGTACTGGTACTTCGATGTCTGG
TX_703	1	0.001	CAGDRWGYWYFDVW	TGTGCAGGAGACAGATGGGGTACTGGTACTTCGATGTCTGG
TX_703	1	0.001	CMRYGNWYFDVW	TGTATGAGATATGGTAACTGGTACTTCGATGTCTGG
total	175327	100		

sample_name	productive_frequency	templates	amino_acid
	99.881		53681 CARSDYGGSSSLDYW
TX6_Q67_2	0.007		4 CARSDYGGSSSLDYW
TX6_Q67_2	0.007		4 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.004		2 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CFTVQRLRYFDVW
TX6_Q67_2	0.002		1 CTARSCLRLYFDVW
TX6_Q67_2	0.002		1 CAREGVYDYESWYFDVW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CMRYSNWYFDVW
TX6_Q67_2	0.002		1 CARNSYGDLWFAYW
TX6_Q67_2	0.002		1 CMNRSNNYAMDYW
TX6_Q67_2	0.002		1 CAQGALTRLRYFDVW
TX6_Q67_2	0.002		1 CAERGDRRLRYFDVW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CASYRTRRLRYFDVW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
TX6_Q67_2	0.002		1 CARSDYGGSSSLDYW
total	100.000		53745

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sample_name	productive_frequency	templates	amino_acid
TX7_Q76_2	78.714	87584	CMRYSNYWYFDVW
TX7_Q76_2	21.188	23575	CAGDYDGYWYFDVW
TX7_Q76_2	0.004	5	CMRYSNYWYFDVW
TX7_Q76_2	0.004	4	CARHYPWFAYW
TX7_Q76_2	0.002	2	CARRDYSNYEDDYW
TX7_Q76_2	0.002	2	CAGDYDGYWYFDVW
TX7_Q76_2	0.002	2	CAGDYDGYWYFDVW
TX7_Q76_2	0.002	2	CMRYSNYWYFDVW
TX7_Q76_2	0.002	2	CAGDYDGYWYFDVW
TX7_Q76_2	0.002	2	CMRYSNYWYFDVW
TX7_Q76_2	0.002	2	CMRYSNYWYFDVW
TX7_Q76_2	0.002	2	CAGDYDGYWYFDVW
TX7_Q76_2	0.002	2	CMRYSNYWYFDVW
TX7_Q76_2	0.002	2	CMRYSNYWYFDVW
TX7_Q76_2	0.002	2	CMRYSNYWYFDVW
TX7_Q76_2	0.002	2	CMRYSNYWYFDVW
TX7_Q76_2	0.002	2	CARELANWYFDYW
TX7_Q76_2	0.001	1	CANNRGYAMDYW
TX7_Q76_2	0.001	1	CELRSEDFAYW
TX7_Q76_2	0.001	1	CARGMDYW
TX7_Q76_2	0.001	1	CVLRRLRLRYFDVW
TX7_Q76_2	0.001	1	CAIMDYW
TX7_Q76_2	0.001	1	CARSYGNVWAFAYW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CVVVEDFAYW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CARDYGSSGYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CAHGYVLTGW
TX7_Q76_2	0.001	1	CASYDTGAMDYW
TX7_Q76_2	0.001	1	CARKGGYFFDYW
TX7_Q76_2	0.001	1	CARDYDYEFAYW
TX7_Q76_2	0.001	1	CGLHACEDFAYW
TX7_Q76_2	0.001	1	CASLQCEDFAYW
TX7_Q76_2	0.001	1	CAKEPPHYGTGGVFFDYW
TX7_Q76_2	0.001	1	CARRLPFFAYW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CDGESEDFAYW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CAGDYDGYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNYWYFDVW
TX7_Q76_2	0.001	1	CMRYSNFRYFDVW
TX7_Q76_2	0.001	1	CAISCHTGEFAYW
TX7_Q76_2	0.001	1	CSLHACEDFAYW
total	100	111268	

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