

Level tested	Tissue	Group	Feature Tested	Active vs. Control	GFD vs. Control
Group	IEL		TRGV10	0.6586	0.895
Group	IEL		TRGV9	0.2366	0.0878
Group	IEL		TRGV8	0.6206	0.6388
Group	IEL		TRGV5	0.1861	0.3732
Group	IEL		TRGV4	3.33E-07	1.98E-13
Group	IEL		TRGV3	0.0163	0.0258
Group	IEL		TRGV2	0.2381	0.2028
Individual	IEL		TRGV10	0.8562	0.4251
Individual	IEL		TRGV9	0.7448	0.1894
Individual	IEL		TRGV8	0.7598	0.8909
Individual	IEL		TRGV5	0.4378	0.8303
Individual	IEL		TRGV4	0.0001	2.67E-06
Individual	IEL		TRGV3	0.0227	0.1024
Individual	IEL		TRGV2	0.5222	0.4769
Group	PBL		TRGV10	0.1647	0.966
Group	PBL		TRGV9	0.5127	0.5824
Group	PBL		TRGV8	0.0478	0.8136
Group	PBL		TRGV5	0.7639	0.5881
Group	PBL		TRGV4	0.7376	0.4946
Group	PBL		TRGV3	0.5254	0.5691
Group	PBL		TRGV2	0.0441	0.8633
Individual	PBL		TRGV10	0.0869	0.9769
Individual	PBL		TRGV9	0.3522	0.5815
Individual	PBL		TRGV8	0.0773	0.974
Individual	PBL		TRGV5	0.8372	0.4867
Individual	PBL		TRGV4	0.3124	0.3929
Individual	PBL		TRGV3	0.147	0.1513
Individual	PBL		TRGV2	0.0023	0.4572
Group		Control	TRGV10		
Group		Control	TRGV9		
Group		Control	TRGV8		
Group		Control	TRGV5		
Group		Control	TRGV4		
Group		Control	TRGV3		
Group		Control	TRGV2		
Individual		Control	TRGV10		
Individual		Control	TRGV9		
Individual		Control	TRGV8		
Individual		Control	TRGV5		
Individual		Control	TRGV4		

Individual		Control	TRGV3		
Individual		Control	TRGV2		
Group		Active	TRGV10		
Group		Active	TRGV9		
Group		Active	TRGV8		
Group		Active	TRGV5		
Group		Active	TRGV4		
Group		Active	TRGV3		
Group		Active	TRGV2		
Individual		Active	TRGV10		
Individual		Active	TRGV9		
Individual		Active	TRGV8		
Individual		Active	TRGV5		
Individual		Active	TRGV4		
Individual		Active	TRGV3		
Individual		Active	TRGV2		
Group		GFD	TRGV10		
Group		GFD	TRGV9		
Group		GFD	TRGV8		
Group		GFD	TRGV5		
Group		GFD	TRGV4		
Group		GFD	TRGV3		
Group		GFD	TRGV2		
Individual		GFD	TRGV10		
Individual		GFD	TRGV9		
Individual		GFD	TRGV8		
Individual		GFD	TRGV5		
Individual		GFD	TRGV4		
Individual		GFD	TRGV3		
Individual		GFD	TRGV2		

Active vs. GFD	IEL vs. PBL
0.8408	
6.37E-05	
0.9991	
0.7844	
0.0025	
0.6894	
0.9911	
0.5324	
0.1051	
0.6659	
0.3374	
0.2217	
0.548	
0.9264	
0.2523	
0.1425	
0.239	
0.3314	
0.8983	
0.9962	
0.2618	
0.1177	
0.1591	
0.0974	
0.3712	
0.9619	
0.8559	
0.0402	
	0.7526
	0.0295
	0.0089
	0.2271
	2.00E-09
	0.0285
	0.9034
	0.7983
	0.0792
	0.1212
	0.5045
	1.58E-05

	0.0226
	0.5418
	0.109
	0.0065
	0.5003
	0.8383
	0.1878
	0.0107
	0.2949
	0.0613
	0.0282
	0.7801
	0.9327
	0.9035
	0.1424
	0.4762
	0.731
	0.1818
	0.1859
	0.2991
	0.0662
	0.0713
	0.3078
	0.7054
	0.3995
	0.0711
	0.9984
	0.2085
	0.1378
	0.4699

Level tested	Tissue	Group	Feature tested	Active vs. Control	GFD vs. Control
Group	IEL		TRJ1	0.9306	0.9978
Group	IEL		TRJP1	0.3945	0.0791
Group	IEL		TRJP2	0.8508	0.9705
Group	IEL		TRJ2	0.2984	0.721
Group	IEL		TRJP	0.9382	0.9756
Individual	IEL		TRJ1	0.8324	0.5546
Individual	IEL		TRJP1	0.1894	0.1416
Individual	IEL		TRJP2	0.9603	0.8388
Individual	IEL		TRJ2	0.3565	0.8795
Individual	IEL		TRJP	0.3688	0.3776
Group	PBL		TRJ1	0.0933	0.6495
Group	PBL		TRJP1	0.763	0.4682
Group	PBL		TRJP2	0.5907	0.719
Group	PBL		TRJ2	0.1366	0.9915
Group	PBL		TRJP	0.6304	0.7898
Individual	PBL		TRJ1	0.0711	0.4854
Individual	PBL		TRJP1	0.4882	0.3514
Individual	PBL		TRJP2	0.444	0.7084
Individual	PBL		TRJ2	0.0439	0.9693
Individual	PBL		TRJP	0.985	0.9735
Group	IEL	Control	TRJ1		
Group	IEL	Control	TRJP1		
Group	IEL	Control	TRJP2		
Group	IEL	Control	TRJ2		
Group	IEL	Control	TRJP		
Individual	IEL	Control	TRJ1		
Individual	IEL	Control	TRJP1		
Individual	IEL	Control	TRJP2		
Individual	IEL	Control	TRJ2		
Individual	IEL	Control	TRJP		
Group	IEL	Active	TRJ1		
Group	IEL	Active	TRJP1		
Group	IEL	Active	TRJP2		
Group	IEL	Active	TRJ2		
Group	IEL	Active	TRJP		
Individual	IEL	Active	TRJ1		
Individual	IEL	Active	TRJP1		
Individual	IEL	Active	TRJP2		
Individual	IEL	Active	TRJ2		
Individual	IEL	Active	TRJP		

Group	IEL	GFD	TRJ1		
Group	IEL	GFD	TRJP1		
Group	IEL	GFD	TRJP2		
Group	IEL	GFD	TRJ2		
Group	IEL	GFD	TRJP		
Individual	IEL	GFD	TRJ1		
Individual	IEL	GFD	TRJP1		
Individual	IEL	GFD	TRJP2		
Individual	IEL	GFD	TRJ2		
Individual	IEL	GFD	TRJP		

Active vs. GFD	IEL vs. PBL
0.9319	
0.5751	
0.9294	
0.0284	
0.7924	
0.6988	
0.8319	
0.8015	
0.2968	
0.9866	
0.6174	
0.8241	
0.3321	
0.2397	
0.9782	
0.3491	
0.736	
0.287	
0.0696	
0.9864	
	0.1677
	0.5185
	0.3267
	0.5131
	0.9289
	0.0295
	0.8857
	0.4541
	0.6069
	0.6033
	0.6166
	0.806
	0.593
	0.8532
	0.4262
	0.696
	0.6068
	0.9481
	0.9872
	0.6448

	0.7052
	0.8447
	0.8447
	0.8639
	0.3991
	0.9049
	0.8017
	0.3294
	0.8732
	0.7284

Level Tested	Tissue	Amino Acid	Active vs. Control	GFD vs. Control	Active vs. GFD
Group	IEL	A	0.3177	0.3834	0.9905
Group	IEL	R	0.6925	0.9355	0.4243
Group	IEL	N	0.0365	0.2052	0.6386
Group	IEL	D	0.0015	0.085	0.2872
Group	IEL	C	0.9967	0.7203	0.7402
Group	IEL	Q	0.2356	0.7822	0.5409
Group	IEL	E	0.3595	0.9264	0.1559
Group	IEL	G	0.2735	0.7071	0.7028
Group	IEL	H	0.4007	0.8226	0.7389
Group	IEL	I	0.9184	0.4469	0.6531
Group	IEL	L	0.5511	0.4632	0.9867
Group	IEL	K	0.5682	0.3231	0.8834
Group	IEL	M	0.74	0.7575	0.9995
Group	IEL	F	0.9759	0.9573	0.9967
Group	IEL	P	0.9367	0.9438	0.7529
Group	IEL	S	0.9998	0.8886	0.8614
Group	IEL	T	0.1634	0.4437	0.7906
Group	IEL	W	0.9063	0.4003	0.6166
Group	IEL	Y	0.0139	0.0133	0.9997
Group	IEL	V	0.9082	0.9241	0.6686
Individual	IEL	A	0.0932	0.1027	0.9945
Individual	IEL	R	0.0158	0.6375	0.0603
Individual	IEL	N	0.0818	0.186	0.7108
Individual	IEL	D	0.0015	0.0925	0.1553
Individual	IEL	C	0.5381	0.2901	0.1018
Individual	IEL	Q	0.0662	0.5103	0.2583
Individual	IEL	E	0.5062	0.7009	0.3048
Individual	IEL	G	0.9475	0.5067	0.5482
Individual	IEL	H	0.9377	0.829	0.8884
Individual	IEL	I	0.4324	0.7931	0.3082
Individual	IEL	L	0.7453	0.7233	0.5047
Individual	IEL	K	0.8695	0.723	0.6082
Individual	IEL	M	0.9352	0.999	0.9384
Individual	IEL	F	0.188	0.7888	0.3138
Individual	IEL	P	0.9074	0.669	0.5895
Individual	IEL	S	0.6494	0.6733	0.3897
Individual	IEL	T	0.3728	0.8506	0.5006
Individual	IEL	W	0.2338	0.3849	0.7764
Individual	IEL	Y	0.0001	0.0003	0.9331
Individual	IEL	V	0.5665	0.5631	0.98
Group	PBL	A	0.9995	0.3726	0.4243
Group	PBL	R	0.9895	0.9989	0.9966
Group	PBL	N	0.3177	0.212	0.9146

Group	PBL	D	0.7552	0.9188	0.5814
Group	PBL	C	0.2183	0.1079	0.6574
Group	PBL	Q	0.8226	0.9335	0.6756
Group	PBL	E	0.9713	0.7195	0.6182
Group	PBL	G	0.5122	0.1045	0.0303
Group	PBL	H	0.462	0.9597	0.7245
Group	PBL	I	0.082	0.8581	0.3641
Group	PBL	L	0.3154	0.9431	0.5959
Group	PBL	K	0.6587	0.2943	0.7911
Group	PBL	M	0.4192	0.7229	0.2065
Group	PBL	F	0.9348	0.2551	0.4566
Group	PBL	P	0.3296	0.763	0.1358
Group	PBL	S	0.4341	0.6876	0.1517
Group	PBL	T	0.434	0.2607	0.029
Group	PBL	W	0.6076	0.9933	0.7516
Group	PBL	Y	0.9709	0.1748	0.1376
Group	PBL	V	0.7315	0.3547	0.1258
Individual	PBL	A	0.3827	0.0818	0.314
Individual	PBL	R	0.8973	0.5984	0.6716
Individual	PBL	N	0.1048	0.0942	0.7808
Individual	PBL	D	0.1369	0.5739	0.4364
Individual	PBL	C	0.4368	0.1346	0.3911
Individual	PBL	Q	0.8832	0.4715	0.5437
Individual	PBL	E	0.7272	0.4057	0.246
Individual	PBL	G	0.183	0.0324	0.0012
Individual	PBL	H	0.4375	0.563	0.9086
Individual	PBL	I	0.0674	0.7625	0.0522
Individual	PBL	L	0.6285	0.9956	0.6559
Individual	PBL	K	0.5018	0.2559	0.5796
Individual	PBL	M	0.2397	0.505	0.0874
Individual	PBL	F	0.8937	0.7749	0.6777
Individual	PBL	P	0.1103	0.3921	0.0205
Individual	PBL	S	0.102	0.7261	0.0653
Individual	PBL	T	0.5466	0.1458	0.0425
Individual	PBL	W	0.623	0.185	0.074
Individual	PBL	Y	0.4271	0.3274	0.7737
Individual	PBL	V	0.7418	0.3591	0.2175

Level tested	Tissue	Feature Tested	Active vs. Control	GFD vs. Control
Group	IEL	TRDD2 - PSY	0.5464	0.0586
Group	IEL	TRDD2 - FL	0.0344	0.1455
Group	IEL	TRDD2 - LP	0.9508	0.9861
Group	IEL	TRDD3 - TGGY	0.5543	0.9495
Group	IEL	TRDD3 - WGI	0.9992	0.0517
Group	IEL	TRDD3 - LGDT	0.0044	0.1215
Group	IEL	TRDD2/TRDD3 combinations	0.0866	0.0454
Group	IEL	No TRDD usage	0.0493	6.84E-06
Individual	IEL	TRDD2 - PSY	0.3223	0.0855
Individual	IEL	TRDD2 - FL	0.0232	0.2631
Individual	IEL	TRDD2 - LP	0.9727	0.7238
Individual	IEL	TRDD3 - TGGY	0.8039	0.9785
Individual	IEL	TRDD3 - WGI	0.8816	0.1075
Individual	IEL	TRDD3 - LGDT	0.0563	0.3906
Individual	IEL	TRDD2/TRDD3 combinations	0.1029	0.0783
Individual	IEL	No TRDD usage	0.0235	0.0001
Group	PBL	TRDD2 - PSY	0.9708	0.9805
Group	PBL	TRDD2 - FL	0.2708	0.6906
Group	PBL	TRDD2 - LP	0.9303	0.6916
Group	PBL	TRDD3 - TGGY	0.5265	0.0394
Group	PBL	TRDD3 - WGI	0.5054	0.8997
Group	PBL	TRDD3 - LGDT	0.9643	0.9409
Group	PBL	TRDD2/TRDD3 combinations	0.1133	0.166
Group	PBL	No TRDD usage	0.9607	0.3625
Individual	PBL	TRDD2 - PSY	0.3803	0.976
Individual	PBL	TRDD2 - FL	0.1012	0.4448
Individual	PBL	TRDD2 - LP	0.5653	0.4596
Individual	PBL	TRDD3 - TGGY	0.8203	0.3082
Individual	PBL	TRDD3 - WGI	0.7029	0.1147
Individual	PBL	TRDD3 - LGDT	0.7338	0.4407
Individual	PBL	TRDD2/TRDD3 combinations	0.0043	0.1087
Individual	PBL	No TRDD usage	0.3553	0.2193

Active vs. GFD

0.261

0.6414

0.8743

0.7169

0.0282

0.3275

0.9391

0.0207

0.4398

0.2689

0.6993

0.7898

0.1422

0.3174

0.856

0.057

0.9997

0.8196

0.8914

0.0043

0.3616

0.8521

0.996

0.5292

0.4462

0.469

0.8156

0.3999

0.0525

0.6296

0.3011

0.6653

Level Tested	Tissue	Amino Acid	Active vs. Control	GFD vs. Control	Active vs. GFD
Group	IEL	A	0.9994	0.9533	0.9198
Group	IEL	R	0.4453	0.9635	0.499
Group	IEL	N	0.9571	0.9913	0.9811
Group	IEL	D	0.9843	0.9999	0.9742
Group	IEL	C	0.6864	0.9085	0.3375
Group	IEL	Q	0.6956	0.908	0.8668
Group	IEL	E	0.2079	0.8927	0.3175
Group	IEL	G	0.847	0.4753	0.7468
Group	IEL	H	0.0079	0.5555	0.0035
Group	IEL	I	0.4335	0.9973	0.2938
Group	IEL	L	0.699	0.8923	0.2856
Group	IEL	K	0.8812	0.7538	0.9591
Group	IEL	M	0.5219	0.7947	0.7114
Group	IEL	F	0.6826	0.8597	0.9295
Group	IEL	P	0.041	0.0017	0.3246
Group	IEL	S	0.9732	0.8454	0.9199
Group	IEL	T	0.9067	0.5725	0.7375
Group	IEL	W	0.9688	0.545	0.5599
Group	IEL	Y	0.2132	0.4285	0.805
Group	IEL	V	0.9894	0.8628	0.8886
Individual	IEL	A	0.985	0.8555	0.9629
Individual	IEL	R	0.9715	0.7933	0.5802
Individual	IEL	N	0.2683	0.3112	0.9743
Individual	IEL	D	0.7852	0.4174	0.4079
Individual	IEL	C	0.2224	0.2046	0.8401
Individual	IEL	Q	0.6946	0.6814	0.981
Individual	IEL	E	0.0106	0.459	0.049
Individual	IEL	G	0.6683	0.712	0.4673
Individual	IEL	H	0.0103	0.7789	0.0103
Individual	IEL	I	0.052	0.86	0.1305
Individual	IEL	L	0.6415	0.6361	0.2565
Individual	IEL	K	0.3023	0.4028	0.9079
Individual	IEL	M	0.9335	0.4262	0.5453
Individual	IEL	F	0.1314	0.1238	0.9326
Individual	IEL	P	0.0476	0.0139	0.6589
Individual	IEL	S	0.6496	0.2954	0.4594
Individual	IEL	T	0.7227	0.565	0.8432
Individual	IEL	W	0.8419	0.8461	0.6463
Individual	IEL	Y	0.5383	0.5807	0.8745
Individual	IEL	V	0.2531	0.6799	0.159

Group	PBL	A	0.9578	0.4342	0.3378
Group	PBL	R	0.8759	0.8081	0.5736
Group	PBL	N	0.9338	0.5301	0.7144
Group	PBL	D	0.8029	0.7131	0.9761
Group	PBL	C	0.9692	0.995	0.9933
Group	PBL	Q	0.7728	0.7195	0.4372
Group	PBL	E	0.9508	0.242	0.4097
Group	PBL	G	0.5779	0.5607	0.1593
Group	PBL	H	0.2966	0.3401	0.9992
Group	PBL	I	0.7829	0.6145	0.9443
Group	PBL	L	0.9999	0.4719	0.4977
Group	PBL	K	0.5571	0.9119	0.4019
Group	PBL	M	0.8476	0.8552	0.6246
Group	PBL	F	0.9966	0.5893	0.5686
Group	PBL	P	0.705	0.542	0.2247
Group	PBL	S	0.5588	0.9715	0.7938
Group	PBL	T	0.7266	0.9406	0.5882
Group	PBL	W	0.2823	0.3834	0.9971
Group	PBL	Y	0.9823	0.9407	0.9851
Group	PBL	V	0.9577	0.8144	0.6883
Individual	PBL	A	0.909	0.3924	0.3251
Individual	PBL	R	0.8041	0.7429	0.575
Individual	PBL	N	0.9587	0.4226	0.4379
Individual	PBL	D	0.6591	0.3818	0.6191
Individual	PBL	C	0.5325	0.7098	0.8517
Individual	PBL	Q	0.7369	0.5894	0.3944
Individual	PBL	E	0.986	0.3223	0.3007
Individual	PBL	G	0.4912	0.2075	0.0554
Individual	PBL	H	0.0381	0.1031	0.8062
Individual	PBL	I	0.6128	0.4903	0.8053
Individual	PBL	L	0.9603	0.5877	0.6086
Individual	PBL	K	0.592	0.3497	0.1458
Individual	PBL	M	0.7644	0.306	0.436
Individual	PBL	F	0.7965	0.593	0.4369
Individual	PBL	P	0.7344	0.3311	0.1949
Individual	PBL	S	0.705	0.4522	0.269
Individual	PBL	T	0.7365	0.523	0.3342
Individual	PBL	W	0.1548	0.469	0.5736
Individual	PBL	Y	0.7474	0.3907	0.5563
Individual	PBL	V	0.9522	0.7103	0.6624