

	100	110	120	130	140	150
Consensus D S-gene	LIFLLVLLDYQGMLPVCPLIPGSSTTSTG	PCRTCTTPAQGTSMPSCCCTKPSDGNCTCI				
12-01A	SR.I.PNL.N.VIR.M.AVPN.TN.F.I.E.					
12-02A	R.T.L.QF.AV.RN.T.F.T.E.					
12-04A	R.T.L.N.IQ.M.AV.RN.T.F.NT.E.					
12-08A	R.I.PNL.N.IG.NA.RK.TD.F.S.T.A.					
13-01A	L.S.I.E.					
13-05B	L.S.YI.E.					
13-08B	L.S.YI.E.					
13-09A	L.S.YI.E.					
13-09B	L.S.YI.X.					
14-03A	FR.A.Q.LV.H.NTER.					
14-04B	FR.A.Q.LV.H.NTER.					
14-05B	FR.A.Q.LV.H.NTER.					
14-08B	FR.A.Q.LV.H.NXER.					
14-10B	FR.A.Q.LV.H.NTER.					
17-A	I.T.R.T.					
19-A						
19-B						
21-09A	V.M.PL.N.R.S.L.I.P.I.E.					
21-10A	V.M.PL.N.R.S.L.I.P.I.E.					
22-01A	V.M.L.N.K.S.LP.H.CR.I.					
23-01B	G.S.I.R.K.T.D.LVL.K.N.					
24-06B	I.L.K.					
24-10A	I.L.K.					
27-01A	S.A.F.TNLT.M.T.					
27-03A	S.A.F.TNLT.M.T.X.					
27-08A	A.TNLT.M.T.F.					
33-A	A.R.RN.					
45-05A	I.A.T.T.H.					
45-06B	I.A.T.T.H.					
55-A	A.I.					
67-02A	F.L.E.I.S.R.ET.T					
67-07B	F.L.E.I.S.R.ET.T					
67-11A	F.L.E.I.S.R.ET.T					
68-04B	R.I.TR.A.PVSY.N.IT.N.F.H.E.					
69-08B	L.TF.L.T.K.L.HA.T.					
75-A	R.					
79-01A	R.					
79-09A	S.N.					
37-03B	C.R.K.IL.YS.					
41-05A	C.R.K.IL.YS.I.					
41-09A	T.F.N.R.M.V. ....					
48-08A	X.TNLT.M.T.					
48-11B	S.L.V.R.L.					
49-11A	R.R.F.					
51-06B	R.E.Y.N.H.R.					
58-09A	I.A.S.L.					
64-02A	I.A.S.L.					
64-05B						
96-04B						
78-9B						
78-11B						
82-2A						

	160	170
Consensus D S-gene	PIPSSWAFGKFLWEWASARF	
12-01A	H.....R.....	
12-02A	.....N.....L.....	
12-04A	.....N.....D.....	
12-08A	.....G.....	
13-01A	.....V.....	
13-05B	.....	
13-08B	.....	
13-09A	.....	
13-09B	.....	
14-03A	.....N.....H.....	
14-04B	.....N.....H.....	
14-05B	.....N.....	
14-08B	.....N.....X.....	
14-10B	.....N.....	
17-A	.....	
19-A	.....	
19-B	.....	
21-09A	.....	
21-10A	.....	
22-01A	.....	
23-01B	.....N.....	
24-06B	.....	
24-10A	.....	
27-01A	.....A.....	
27-03A	.....A.....	
27-08A	.....A.....	
33-A	.....L.....	
45-05A	.....	
45-06B	.....	
55-A	.....G.....	
67-02A	.....	
67-07B	.....	
67-11A	.....	
68-04B	.....E.....	
69-08B	.....Q.....R.....G.....	
75-A	.....S.....	
79-01A	.....V.....	
79-09A	.....V.....	
37-03B	.....	
41-05A	.....	
41-09A	.....	
48-08A	.....A.....	
48-11B	.....A.....	
49-11A	.....	
51-06B	L..Q.....N.....	
58-09A	.....V.....	
64-02A	.....	
64-05B	.....	
96-04B	.....	
78-9B	.....	
78-11B	.....	
82-2A	.....	

Supplemental Figure 1. S-gene amino acids 91-170 sequences from OBI samples. Sequence ID contains donor number-replicate identifier. Sequences are aligned to consensus genotype-D sequence; identical to consensus amino acids are shown as dots.