

Additional data file 3A. Location of opossum TRA and TRD gene segments†.

	FR1	RSS		FR1	RSS
TRAV1	1.170335765	1.170336039	TRAV26	1.170980543	1.170980820
TRAV2.1	1.170467363	1.170467645	TRAV27	1.171002055	1.171002328
TRAV3	1.170526288	1.170526564	TRAV28	1.171027496	1.171027772
TRAV4 ψ	1.170536576	1.170536868	TRAV29.1	1.171035714	1.171035997
TRAV5	1.170551083	1.170551362	TRAV29.2	1.171038664	1.171038947
TRAV6	1.170565257	1.170565537	TRAV29.3	1.171051793	1.171052076
TRAV7	1.170570283	1.170570572	TRDV1	1.171063965	1.171064253
TRAV8	1.170580077	1.170580353	TRAV29.4	1.171072970	1.171073253
TRAV9 ψ	1.170594428	1.170594725	TRAV30	1.171081236	1.171081512
TRAV10	1.170603678	1.170603957	TRAV31	1.171091982	1.171092270
TRAV11 ψ	1.170612573	1.170612867	TRAV32	1.171098462	1.171098732
TRAV12.1	1.170631865	1.170632142	TRAV33	1.171110957	1.171111236
TRAV12.2 ψ	1.170655644	1.170655934	TRAV34	1.171131484	1.171131760
TRAV12.3	1.170659620	1.170659899	TRAV35	1.171161426	1.171161696
TRAV12.4 ψ	1.170662774	1.170663071	TRAV36	1.171163817	1.171164087
TRAV12.5	1.170690630	1.170690909	TRAV37.1	1.171187291	1.171187561
TRAV12.6	1.170694290	1.170694569	TRAV38.1	1.171195327	1.171195596
TRAV12.7 ψ	1.170712407	1.170712698	TRAV37.2	1.171221691	1.171221961
TRAV13 ψ	1.170726196	1.170726486	TRAV38.2	1.171225336	1.171225609
TRAV14 ψ	1.170734085	1.170734354	TRAV38.3	1.171229567	1.171229840
TRAV15 ψ	1.170741534	1.170741821	TRAV38.4	1.171246367	1.171246640
TRAV16 ψ	1.170754219	1.170754530	TRAV38.5	1.171254122	1.171254395
TRAV17.1	1.170764244	1.170764515	TRAV38.6	1.171259736	1.171260009
TRAV17.2 ψ	1.170785590	1.170785873	TRAV39	1.171264424	1.171264697
TRAV18.1	1.170796813	1.170797092	TRAV40.1	1.171287280	1.171287553
TRAV19 ψ	1.170811615	1.170811892	TRAV41.1	1.171292594	1.171292864
TRAV17.3	1.170825363	1.170825634	TRAV40.2	1.171299775	1.171300048
TRAV18.2	1.170847937	1.170848216	TRAV41.2	1.171307433	1.171307703
TRAV20	1.170859120	1.170859409	TRAV40.3	1.171311478	1.171311751
TRAV21	1.170871041	1.170871316	TRAV41.3	1.171318193	1.171318466
TRAV22	1.170880386	1.170880663	TRAV41.4	1.171327657	1.171327930
TRAV23	1.170906947	1.170907224	TRDV2	1.171400567	1.171400854
TRAV24	1.170920360	1.170920622	TRDV3	1.171424064	1.171424350
TRAV2.2	1.170935383	1.170935665	TRDV4 ψ	1.171444222	1.171444506
TRAV2.3	1.170938391	1.170938673	TRDV5 ψ	1.171458241	1.171458383
TRAV2.4	1.170946870	1.170947152	TRDV6	1.171516536	1.171516242
TRAV2.5	1.170950407	1.170950700			
TRAV25	1.170975968	1.170976247			

Additional data file 3A. Location of opossum TRA and TRD gene segments†.

	RSS	3' Splice site		RSS	3' Splice site
TRAJ1	1.171624144	1.171624209	TRAJ39	1.171560884	1.171560947
TRAJ2	1.171621316	1.171621377	TRAJ40	1.171558092	1.171558150
TRAJ3	1.171618883	1.171618942	TRAJ41	1.171557219	1.171557281
TRAJ4	1.171616645	1.171616702	TRAJ42	1.171553702	1.171553764
TRAJ5	1.171614765	1.171614825	TRAJ43	1.171551960	1.171552026
TRAJ6	1.171611806	1.171611865	TRAJ44	1.171551108	1.171551168
TRAJ7	1.171610105	1.171610167	TRAJ45	1.171548555	1.171548620
TRAJ8	1.171607962	1.171608027	TRAJ46	1.171547901	1.171547966
TRAJ9	1.171607046	1.171607105	TRAJ47	1.171547329	1.171547386
TRAJ10	1.171606681	1.171606743	TRAJ48	1.171545900	1.171545956
TRAJ11	1.171605340	1.171605398	TRAJ49	1.171544979	1.171545042
TRAJ12	1.171603483	1.171603542	TRAJ50	1.171543006	1.171543068
TRAJ13	1.171602803	1.171602861	TRAJ51	1.171541297	1.171541356
TRAJ14	1.171600608	1.171600670	TRAJ52	1.171540591	1.171540649
TRAJ15	1.171598526	1.171598582	TRAJ53	1.171539502	1.171539560
TRAJ16	1.171596687	1.171596742		5' RSS	3' RSS
TRAJ17	1.171594781	1.171594842	TRDD1	1.171465157	1.171465172
TRAJ18	1.171593777	1.171593839	TRDD2	1.171481001	1.171481014
TRAJ19	1.171592376	1.171592435		RSS	3' Splice site
TRAJ20	1.171589459	1.171589517	TRDJ1	1.171481982	1.171482036
TRAJ21	1.171588810	1.171588872	TRDJ2	1.171487815	1.171487863
TRAJ22	1.171587455	1.171587511	TRDJ3	1.171490531	1.171490581
TRAJ23	1.171586283	1.171586339	TRDJ4ψ	1.171493331	1.171493382
TRAJ24	1.171583500	1.171583563	TRDJ5	1.171494186	1.171494239
TRAJ25	1.171582540	1.171582596	TRDJ6	1.171497391	1.171497449
TRAJ26	1.171581875	1.171581937			
TRAJ27	1.171580244	1.171580303		5' Splice site	3' Splice site
TRAJ28	1.171577416	1.171577458	TRAC	1.171630034	1.171630310
TRAJ29	1.171576717	1.171576779	TRDC	1.171502250	1.171502539
TRAJ30	1.171575553	1.171575618			
TRAJ31	1.171573466	1.171573526			
TRAJ32	1.171570739	1.171570798			
TRAJ33	1.171569626	1.171569688			
TRAJ34	1.171568881	1.171568944			
TRAJ35	1.171567118	1.171567174			
TRAJ36	1.171565234	1.171565296			
TRAJ37	1.171563013	1.171563073			
TRAJ38	1.171561293	1.171561355			

Additional data file 3B. Location of opossum TRB gene segments†.

	FR1	RSS		RSS	3' Splice site
TRBV1	8.204993821	8.204994110	TRBJ1.1	8.205327531	8.205327579
TRBV2ψ	8.204997589	8.204997849	TRBJ1.2	8.205327665	8.205327712
TRBV3	8.205004642	8.205004925	TRBJ1.3	8.205328456	8.205328505
TRBV4	8.205024053	8.205024342	TRBJ1.4	8.205329278	8.205329326
TRBV5ψ	8.205031771	8.205032065	TRBJ1.5	8.205330209	8.205330258
TRBV6.1	8.205042403	8.205042689	TRBJ2.1	8.205342560	8.205342606
TRBV6.2	8.205045926	8.205046212	TRBJ2.2	8.205342841	8.205342891
TRBV6.3	8.205047991	8.205048277	TRBJ2.3	8.205343102	8.205343148
TRBV7ψ	8.205051494	8.205051783	TRBJ2.4	8.205343276	8.205343329
TRBV8.1	8.205073658	8.205073944	TRBJ3.1	8.205355423	8.205355469
TRBV8.2	8.205077939	8.205078225	TRBJ3.2	8.205355704	8.205355754
TRBV9	8.205100683	8.205100972	TRBJ3.3	8.205355960	8.205356006
TRBV10ψ	8.205116394	8.205116679	TRBJ3.4	8.205356134	8.205356187
TRBV11.1	8.205125777	8.205126064	TRBJ4.1	8.205365746	8.205365792
TRBV12.1ψ	8.205126691	8.205126989	TRBJ4.2	8.205366024	8.205366074
TRBV13.1	8.205132530	8.205132819	TRBJ4.3	8.205366239	8.205366287
TRBV11.2	8.205143839	8.205144126	TRBJ4.4	8.205366414	8.205366463
TRBV12.2	8.205145592	8.205145881	TRBJ4.5	8.205366749	8.205366797
TRBV14.1ψ	8.205150669	8.205150966		5' RSS	3' RSS
TRBV14.2ψ	8.205154580	8.205154869	TRBD1	8.205326651	8.205326663
TRBV13.2	8.205158158	8.205158447	TRBD2	8.205341965	8.205341982
TRBV15ψ	8.205169126	8.205169415	TRBD3	8.205354831	8.205354846
TRBV13.3	8.205172206	8.205172492	TRBD4	8.205365180	8.205365197
TRBV16	8.205174882	8.205175174			
TRBV17	8.205181905	8.205182179			
TRBV18ψ	8.205189576	8.205189870		5' Splice site	3' Splice site
TRBV19	8.205200901	8.205201186	TRBC1	8.205333468	8.205333865
TRBV20	8.205205494	8.205205775	TRBC2	8.205346225	8.205346622
TRBV21	8.205214112	8.205214398	TRBC3	8.205359080	8.205359477
TRBV22	8.205229993	8.205230279	TRBC4	8.205371814	8.205372210
TRBV23	8.205238420	8.205238706			
TRBV24	8.205242976	8.205243262			
TRBV25	8.205247855	8.205248138			
TRBV26	8.205266412	8.205266698			
TRBV27	8.205271012	8.205271298			
TRBV28	8.205384686	8.205384403			

Additional data file 3C. Location of opossum TRG gene segments†.

	FR1	RSS
TRGV1.1	6.283942345	6.283942040
TRGV1.2	6.283934927	6.283934623
TRGV1.3	6.283921739	6.283921428
TRGV1.4	6.283915397	6.283915042
TRGV1.5	6.283907901	6.283907590
TRGV2	6.283928450	6.283928153
TRGV3.1	6.283888100	6.283887792
TRGV3.2	6.283879394	6.283879086
TRGV4	6.283884333	6.283884026
	RSS	3' Splice site
TRGJ1	6.283872422	6.283872327
TRGJ2	6.283868960	6.283868876
TRGJ3	6.283864852	6.283864765
TRGJ4	6.283864788	6.283864670
TRGJ5	6.283862065	6.283861969
TRGJ6	6.283862001	6.283861880
TRGJ7	6.283859745	6.283859667
	5' Splice site	3' Splice site
TRGC	6.283854997	6.283854682

Additional data file 3D. Location of opossum TRM gene segments†.

	FR1	RSS		RSS	3' Splice site
TRMV1	3.432520406	3.432520704	TRMJ1	3.432554017	3.432554070
TRMV2	3.432586139	3.432586437	TRMJ2	3.432622480	3.432622533
TRMV3	3.432640955	3.432641253	TRMJ3	3.432739069	3.432739125
TRMV4	3.432796955	3.432797253	TRMJ4	3.432816295	3.432816348
TRMV5	3.432834911	3.432835209	TRMJ5	3.432949925	3.432949981
TRMV7	3.433001637	3.433001935	TRMJ6	3.432979778	3.432979831
TRMV-OR2	2.402780971	2.402780621	TRMJ8	3.433124971	3.433125024
	FR1	3' Splice site			
TRMVj1	3.432554616	3.432554969		5' Splice site	3' Splice site
TRMVj2	3.432623130	3.432623483	TRMC1	3.432555603	3.432555866
TRMVj3	3.432739676	3.432740029	TRMC2	3.432624184	3.432624447
TRMVj4	3.432816976	3.432817329	TRMC3	3.432740589	3.432740852
TRMVj5	3.432950531	3.432950884	TRMC4	3.432818029	3.432818292
TRMVj6	3.432980459	3.432980812	TRMC5	3.432951454	3.432951717
TRMVj7	3.433091285	3.433091638	TRMC6	3.432981512	3.432981775
TRMVj8	3.433125652	3.433126005	TRMC7	3.433092190	3.433092453
	5' RSS	3' RSS	TRMC8	3.433126705	3.433126968
TRMD1.1	3.432528952	3.432528968			
TRMD1.2	3.432538487	3.432538498			
TRMD2.1	3.432588853	3.432588869			
TRMD2.2	3.432602249	3.432602263			
TRMD3.1	3.432665676	3.432665692			
TRMD3.2	3.432675898	3.432675914			
TRMD3.3	3.432701119	3.432701134			
TRMD4.1	3.432800121	3.432800137			
TRMD4.2	3.432803411	3.432803425			
TRMD5.1	3.432850229	3.432850245			
TRMD5.2	3.432863476	3.432863490			
TRMD5.3	3.432919820	3.432919835			
TRMD7.1	3.433030490	3.433030502			
TRMD7.2	3.433058301	3.433058316			
TRMD7.3	3.433068169	3.433068184			

† Locations are given according to MonDom5 assembly. Positions for V segments include from the beginning of framework 1 (FR1), as defined by IMGT, until the first nucleotide of the recombination signal sequence (RSS). 5' RSS and/or 3'RSS positions for D and J segments refer to the first nucleotide in the heptamer of the RSS. For TRC regions the positions given correspond to exon 1.