

Table S2: Protein quality check and 3D structure validation using ProSA Z-score and Ramachandran plot statistics obtained from Procheck.

Olfactory Receptors	ProSA z-score	Percentage of residues in most favored region	Percentage of residues in additionally allowed region	Percentage of residues in generally allowed region	Percentage of residues in disallowed regions	Z-score	G-factor
DmOr7a	-4.16	88.1	8.3	2.1	1.6	-5.826	-1.15
DmOr13a	-4.32	89.5	8.5	1.0	1.0	0.415	-0.04
DmOr19a	-4.34	91.3	6.7	1.4	0.6	0.704	0.00
DmOr22a	-3.87	89.2	8.9	1.1	0.8	-0.267	-0.02
DmOr35a	-5.51	86.7	9.8	1.6	1.9	-5.984	-1.27
DmOr43a	-5.8	93.5	5.6	0.6	0.3	0.873	0.05
DmOr45a	-4.9	94.4	4.4	0.6	0.6	0.539	0.08
DmOr59c	-3.09	83.8	11.3	1.8	3.1	-6.586	-1.23
DmOr67a	-6.14	91.7	7.5	0.5	0.3	0.374	0.06
DmOr69a	-3.01	90.8	7.2	0.8	1.1	0.569	-0.03
DmOr71a	-4.57	91.0	6.9	1.2	0.9	0.561	-0.01
DmOr85c	-5.27	92.9	6.3	0.5	0.3	0.706	0.08
DmOr85d	-4.97	89.8	7.6	1.8	0.8	-0.036	-0.07
GffOr2a2	-4.28	91.8	6.5	0.5	1.2	0.519	0.02
GffOr7a2	-3.92	89.3	7.1	2.7	0.8	0.019	0.01
GffOr13a	-3.78	89.6	8.6	1.4	0.5	0.152	-0.00
GffOr24b	-3.07	87.5	9.8	1.8	0.9	-0.974	-0.28
GffOr33b	-3.85	91.5	7.4	0.5	0.5	0.839	0.07
GffOr43a1	-2.86	84.3	11.1	2.0	2.6	-6.052	-1.24
GffOr42b	-3.82	91.1	7.8	0.9	0.3	0.412	0.03
GffOr45a2	-1.95	86.8	8.3	3.4	1.4	-0.690	-0.1
GffOr45a3	-4.31	79.9	14.3	2.6	3.2	-5.708	-1.58
GffOr46a2	-5.4	87.3	9.0	2.7	0.9	-0.587	-0.07
GffOr59a	-3.81	89.5	9.6	0.6	0.3	0.899	0.06
GffOr67d1	-1.37	89.4	6.1	2.0	2.5	0.156	-0.06
GffOr67d6	-1.3	84.2	11.7	3.2	1.5	-1.845	-0.39
GffOr85b	-3.97	94.1	4.3	1.0	0.7	0.712	0.03
GffOr88a	-4.05	88.2	9.0	2.1	0.7	-0.114	-0.08