

**Table S10.** Protein modeling templates

Proteins	Species	Protein length (aa)	Model templates (query cover, identify)
Cnr2	Mus musculus	347	6KPF_R (2.90 Å) (100%, 82.71%) 6PT0_R (3.20 Å) (100%, 82.71%) 5ZTY_A (2.80 Å) (86%, 84.16%)
Gpr55	Mus musculus	327	5XSZ_A (3.20 Å) (59%, 35.44%) 4YAY_A (2.90 Å) (88%, 27.12%) 4ZUD_A (2.80 Å) (88%, 27.12%)
Gpr18	Mus musculus	331	5XSZ_A (3.20 Å) (63%, 31.39%) 6WWZ_R (3.34 Å) (88%, 27.39%) 6RZ6_A (2.43 Å) (66%, 27.13%)
Hcar2	Mus musculus	360	4XNV_A (2.20 Å) (84%, 24.59%) 6WWZ_R (3.34 Å) (86%, 27.36%) 6RZ6_A (2.43 Å) (45%, 36.36%)
Gpr31b	Mus musculus	319	6WWZ_R (3.34 Å) (93%, 26.95%) 6RZ6_A (2.43 Å) (56%, 30.77%) 4XNV_A (2.20 Å) (90%, 23.34%)
Gpr183	Mus musculus	357	5LWE_A (2.80 Å) (90%, 28.40%) 4YAY_A (2.90 Å) (86%, 27.80%) 4ZUD_A (2.80 Å) (85%, 27.42%)
Oas2	Mus musculus	751	<i>De novo</i> by Rosetta
Dhx58	Mus musculus	678	5JB2_A (2.20 Å) (99%, 51.47%) 5JAJ_A (1.50 Å) (99%, 51.47%) 5JC3_A (2.60 Å) (97%, 42.67%)