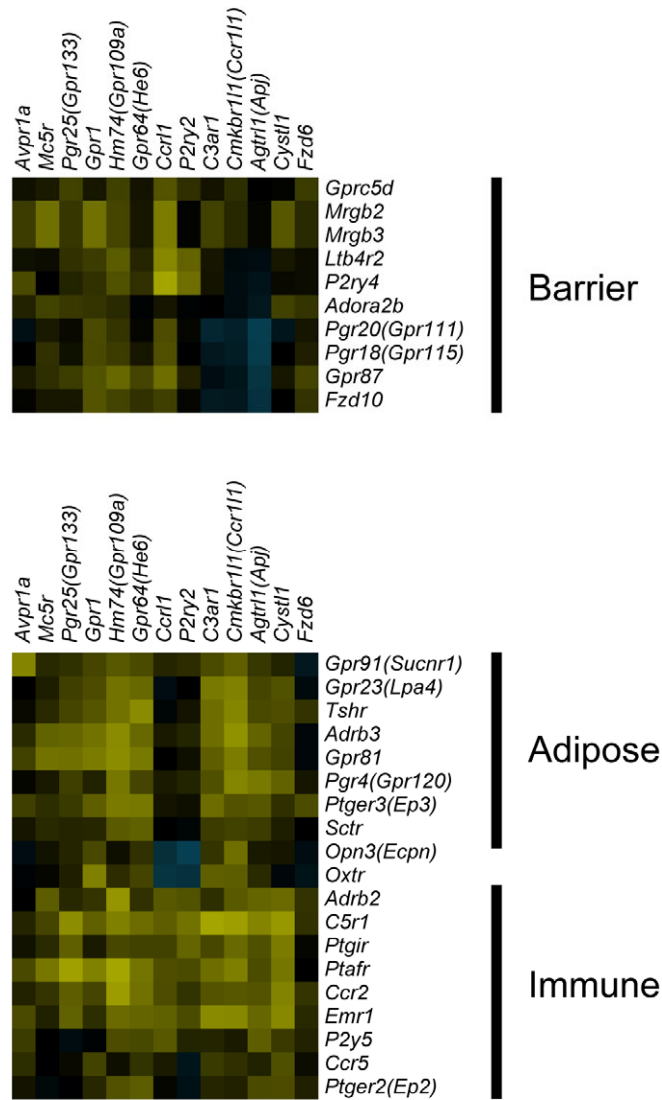


## Supplemental Data

# Anatomical Profiling of G Protein-Coupled Receptor Expression

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**Figure S1. Analysis of off-diagonal Hm74 expression reveals clinically relevant interactions with adipose, immune and barrier clusters**



**Table S1. GPCRs with highly restricted expression patterns.**  
The following receptors showed expression in only 1 or 2 tissues.

<u>Receptor</u>	<u>Genbank Accession</u>	<u>Tissue Expression</u>
Adora3	NM_009631	testes
Adra2b	NM_009633	kidney
Avpr1b	NM_011924	islets/pituitary?
Ccr3	NM_009914	spleen/bone marrow
Ccr9	NM_009913	thymus
Drd4	NM_007878	retina/eye
Fpr-rs2	NM_008039	bone marrow
Fshr	NM_013523	ovary/testes
Ghrhr	NM_001003685	pituitary
Glp2r	NM_175681	retina/eye
Gnrhr	NM_010323	pituitary
Gpcr150	XM_977547	testes
Gpr15	XM_156321	testes
Gpr41(Ffar3)	NM_001033316	islet
Gpr57(Taar3)	NM_001008429	olfactory epithelium
Gpr58(Taar2)	NM_001007266	olfactory epithelium
Gpr66(Nmur1)	NM_010341	testes
Gprc6a	NM_153071	lung/islets
Grm6(Mglur6)	NM_173372	retina/eye
Hgpcr19(Gpbar1)	NM_174985	gall bladder
Hgpcr2(Gpr119)	NM_181751	islets
Lhcgr	NM_013582	ovary/testes
Mrga2	NM_153101	testes/bone marrow
Mrga3	NM_153067	testes/bone marrow
Mrga5	NM_207534	testes/bone marrow
Mrgb3	NM_207537	skin
Mtnr1a	NM_008639	testes
Npy6r	NM_010935	urinary bladder
Oa1(Gpr143)	NM_010951	eye
Opn1mw	NM_008106	retina/eye
Opn1sw	NM_007538	retina/eye
Pgr2(Gpr142)	NM_181749	islets
Pgr23(Gpr113)	NM_001014394	testes
Pgr5(Gpr152)	NM_206973	retina/eye
Pnr(Taar5)	NM_001009574	olfactory epithelium
Rgr	NM_021340	eye/olfactory epithelium
Rho	NM_145383	retina/eye
Ta10(Taar8c)	NM_001010840	olfactory epithelium
Ta11(Taar8b)	NM_001010837	olfactory epithelium
Ta12(Taar7d)	NM_001010838	olfactory epithelium
Ta14(Taar7b)	NM_001010827	olfactory epithelium
Ta15(Taar7f)	NM_001010839	olfactory epithelium
Ta7(Taar8a)	NM_001010830	olfactory epithelium
Ta8(Taar7a)	NM_001010829	olfactory epithelium
Tar1(Taar1)	NM_053205	islets/WAT
Tar2(Taar4)	NM_001008499	olfactory epithelium
Tar3(Taar9)	NM_001010831	olfactory epithelium
Tar4(Taar6)	NM_001010828	olfactory epithelium
Vlgr1(Gpr98)	NM_054053	retina/eye

**Table S2. GPCRs which lack functional Taqman-type primer/probe sets.**  
There is currently no data for these receptors.

<u>Name</u>	<u>Description</u>	<u>Accession #</u>
Agtr2	Angiotensin II receptor	NM_007429
Avpr1b	Vasopressin V1b receptor	NM_011924
Ccr8	Chemokine receptor 8	NM_007720
Cmklr1(Dez)	Chemokine receptor-like 1	NM_008153
Cystl2	Cysteinyl leukotriene receptor 2	NM_133720
Fpr-rs2	formylpeptide receptor-like 2	NM_008039
Gpr84	G protein coupled 84	NM_030720
Hrh4	Histamine receptor H4	NM_153087
Htr4	5-HT receptor 4	NM_008313
Il8ra(Cxcr1)	Interleukin-8 receptor A	NM_178241
Lgr8(Rxfp2)	Relaxin receptor 2	NM_080468
Mc1r	Melanocortin receptor 1	NM_008559
Mc2r	Melanocortin receptor 2	NM_008560
Mrga4	MAS related A4	NM_153524
Mrga7	MAS related A	NM_207535
Mrga8	MAS related A8	NM_207536
Mrgb1	MAS related B1	NM_205810
Mrgb4	MAS related B4	NM_205795
Mrgb5	MAS related D	NM_207538
Mrgd	MAS related B6	NM_203490
Mtnr1b	Melatonin receptor 1B	NM_145712
Pgr12(Opn5)	Neuropsin	NM_181753
Pgr28(Gpr156)	G protein coupled 156	NM_153394