

**Table S7.** GO analysis of hub genes

<b>Gene</b>	<b>GO analysis[1, 2]</b>
<i>Cnr2</i>	MF: signaling receptor activity BP: immune system process; response to stimulus; signaling CC: cell projection; endoplasmic reticulum; plasma membrane
<i>Gpr55</i>	MF: signaling receptor activity BP: cell differentiation; immune system process; response to stimulus; signaling; system development CC: plasma membrane
<i>Gpr18</i>	MF: signaling receptor activity BP: cell differentiation; homeostatic process; immune system process; response to stimulus; signaling; system development CC: cytoplasmic vesicle; plasma membrane
<i>Hcar2</i>	MF: carbohydrate derivative binding; signaling receptor activity BP: cell death; establishment of localization; homeostatic process; immune system process; lipid metabolic process; response to stimulus; signaling CC: plasma membrane
<i>Gpr31b</i>	MF: lipid binding; signaling receptor activity BP: immune system process; response to stimulus; signaling CC: plasma membrane
	MF: lipid binding; signaling receptor activity

<i>Gpr183</i>	BP: cell differentiation; cell population proliferation; homeostatic process; immune system process; response to stimulus; signaling; system development  CC: plasma membrane
<i>Oas2</i>	MF: carbohydrate derivative binding; RNA binding; transferase  BP: establishment of localization; immune system process; response to stimulus; signaling; system development  CC: cytosol; nucleus; organelle lumen
<i>Dhx58</i>	MF: carbohydrate derivative binding; DNA binding; hydrolase; RNA binding  BP: immune system process; response to stimulus  CC: none

Note: Cellular Component; MF: Molecular Function; CC: BP: Biological Process. This information was acquired from the Mouse Genome Database (MGD) at the Mouse Genome Informatics website, the Jackson Laboratory, Bar Harbor, Maine (URL: <http://www.informatics.jax.org>) [40, 41] [date of retrieving data: December 28, 2020]

[1] Smith CM, Hayamizu TF, Finger JH, Bello SM, McCright IJ, Xu J, Baldarelli RM, Beal JS, Campbell J, Corbani LE, Frost PJ, Lewis JR, Giannatto SC, Miers D, Shaw DR, Kadin JA, Richardson JE, Smith CL, Ringwald M. Nucleic Acids Res 2019;47(D1):D774-d779.

[2] Bult CJ, Blake JA, Smith CL, Kadin JA, Richardson JE. Nucleic Acids Res 2019;47(D1):D801-d806.