

# Active Recombinant Mouse zinc and ring finger 3 protein, Fc tagged

**Cat. No.** Znrf3-33M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Active Recombinant Mouse zinc and ring finger 3 protein (Lys53-Met216) with Mouse IgG2a (Glu98-Lys330) Fc tag at C-terminus was expressed in Mouse myeloma cell line.
<b>Species</b>	Mouse
<b>Source</b>	Mouse myeloma cell
<b>ProteinLength</b>	53-216 aa
<b>Description</b>	Predicted to enable frizzled binding activity and ubiquitin protein ligase activity. Involved in regulation of Wnt signaling pathway and stem cell proliferation. Predicted to be active in plasma membrane. Is expressed in forelimb mesenchyme; lung; ovary; and skin. Orthologous to human ZNRF3 (zinc and ring finger 3).
<b>Tag</b>	Fc
<b>Form</b>	Disulfide-linked homodimer
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant Mouse R-Spondin 3 is coated at 0.25 µg/mL, Recombinant Mouse ZNRF3 Fc Chimera binds with an apparent Kd < 0.2 nM.
<b>Molecular Mass</b>	45 kDa

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<b>N-terminal Sequence Analysis</b>	Lys53
<b>Endotoxin</b>	< 0.10 EU/μg of the protein by the LAL method.
<b>Purity</b>	> 95%, by SDS-PAGE with silver staining.
<b>Reconstitution</b>	Reconstitute at 100 μg/mL in PBS.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution in PBS.
<b>Shipping</b>	The product is shipped at ambient temperature.
<b>References</b>	1. de Lau, W. et al. (2014) Genes Dev. 28:305. 2. Xie, Y. et al. (2013) EMBO Rep. 14:1120. 3. Peng, W.C. et al. (2013) PLoS One 8:e83110.

## GENE INFORMATION

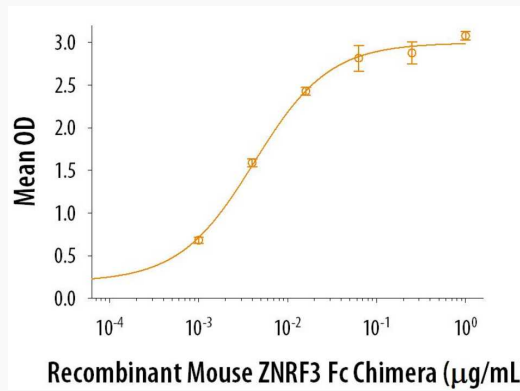
<b>Gene Name</b>	Znrf3 zinc and ring finger 3 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Znrf3
<b>Synonyms</b>	Znrf3; zinc and ring finger 3; Gm1167; E3 ubiquitin-protein ligase ZNRF3; RING-type E3 ubiquitin transferase ZNRF3; zinc/RING finger protein 3; EC 2.3.2.27

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<b>Gene ID</b>	407821
<b>mRNA Refseq</b>	NM_001080924
<b>Protein Refseq</b>	NP_001074393
<b>UniProt ID</b>	Q5SSZ7

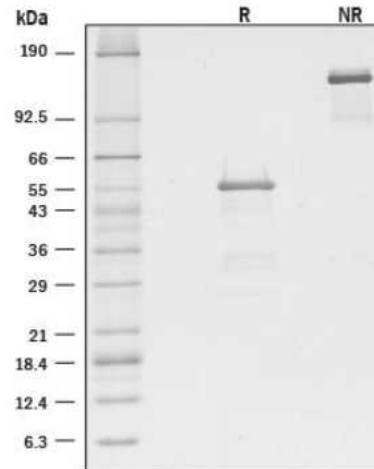
**Binding Activity**


When Recombinant Mouse R-Spondin 3 is coated onto a microplate well at 0.25 µg/mL, Recombinant Mouse ZNRF3 Fc Chimera binds with an apparent  $K_d < 0.2$  nM.

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**SDS-PAGE**

1 µg/lane of Recombinant Mouse ZNRF3 was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing bands at 54.7 and 138 kDa, respectively.

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