

## Recombinant Mouse Homer3 Protein, Myc/DDK-tagged

**Cat. No.** Homer3-3427M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length homer scaffolding protein 3 (Homer3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNM3, RYR1, RYR2, SHANK1 and SHANK3. By physically linking GRM1 and GRM5 with ER-associated ITPR1 receptors, it aids the coupling of surface receptors to intracellular calcium release. Isoforms can be differently regulated and may play an important role in maintaining the plasticity at glutamatergic synapses. Negatively regulates T cell activation by inhibiting the calcineurin-NFAT pathway. Acts by competing with calcineurin/PPP3CA for NFAT protein binding, hence preventing NFAT activation by PPP3CA. |
| <b>Molecular Mass</b>   | 39.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|----------------------|--------------------------------------------------|
| <b>Concentration</b> | >50 µg/mL as determined by microplate BCA method |
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| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
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## GENE INFORMATION

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| <b>Gene Name</b> | Homer3 homer scaffolding protein 3 [ Mus musculus (house mouse) ] |
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| <b>Official Symbol</b> | Homer3 |
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|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b> | HOMER3; homer homolog 3 (Drosophila); homer protein homolog 3; homer-3; homer, neuronal immediate early gene, 3; AW146114 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|

|                |       |
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| <b>Gene ID</b> | 26558 |
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| <b>mRNA Refseq</b> | NM_011984 |
|--------------------|-----------|

|                       |           |
|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_036114 |
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|-------------------|--------|
| <b>UniProt ID</b> | Q99JP6 |
|-------------------|--------|

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