

## Recombinant Human GABRB3

**Cat. No.** GABRB3-28089TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment corresponding to amino acids 26-135 of Human GABA A Receptor beta 3 with an N terminal proprietary tag; Predicted MWt 37.73 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 110 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>This gene encodes a member of the ligand-gated ionic channel family. The encoded protein is one of at least 13 distinct subunits of a multisubunit chloride channel that serves as the receptor for gamma-aminobutyric acid, the major inhibitory transmitter of the nervous system. This gene is located on the long arm of chromosome 15 in a cluster with two genes encoding related subunits of the family. Mutations in this gene may be associated with the pathogenesis of Angelman syndrome, Prader-Willi syndrome, and autism. Alternatively spliced transcript variants encoding distinct isoforms have been described.</p> |
| <b>Molecular Weight</b> | 37.730kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage buffer</b>   | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                 |
| <b>Sequences of amino acids</b> | QSVNDPGNMSFVKETVDKLLKGYDIRLRPDFGGPPVCVGM NIDIASIDMVSEVNMD<br>YTLTMYFQQYWRDKRLAYSGIPLN LTLDNRVADQLWVPDTYFLNDKKSFVHGVT                      |
| <b>Sequence Similarities</b>    | Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRB3 sub-subfamily. |

## GENE INFORMATION

|                            |                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GABRB3 gamma-aminobutyric acid (GABA) A receptor, beta 3 [ Homo sapiens ]                                                                                       |
| <b>Official Symbol</b>     | GABRB3                                                                                                                                                          |
| <b>Synonyms</b>            | GABRB3; gamma-aminobutyric acid (GABA) A receptor, beta 3; gamma-aminobutyric acid receptor subunit beta-3;                                                     |
| <b>Gene ID</b>             | 2562                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_021912                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_068712                                                                                                                                                       |
| <b>Uniprot ID</b>          | P28472                                                                                                                                                          |
| <b>Chromosome Location</b> | 15q11.2-q12                                                                                                                                                     |
| <b>Pathway</b>             | GABA A receptor activation, organism-specific biosystem; GABA receptor activation, organism-specific biosystem; GABAergic synapse, organism-specific biosystem; |

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GABAergic synapse, conserved biosystem; Ion channel transport, organism-specific biosystem;

**Function**

GABA-A receptor activity; chloride channel activity; extracellular ligand-gated ion channel activity; ion channel activity; receptor activity;

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