

# Recombinant Human NRG2

**Cat. No.** NRG2-266H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Human NRG2, encoding Human NRG2 full-length ORF (AAI66615.1), was expressed in Wheat germ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>This gene encodes a novel member of the neuregulin family of growth and differentiation factors. Through interaction with the ERBB family of receptors, this protein induces the growth and differentiation of epithelial, neuronal, glial, and other types of cells. The gene consists of 12 exons and the genomic structure is similar to that of neuregulin 1, another member of the neuregulin family of ligands. The products of these genes mediate distinct biological processes by acting at different sites in tissues and eliciting different biological responses in cells. This gene is located close to the region for demyelinating Charcot-Marie-Tooth disease locus, but is not responsible for this disease. Alternative transcript variants encoding distinct isoforms have been described.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 93.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | <p>MRQVCCSALPPPPLEKGRCSSYSDSSSSSSSERSSSSSSSSSESGSSSRSSSNSSI<br/> SRPAAPPEPRPQQQPQPRSPAARRAAARSRAAAAGGMRRDPAPGFSMLLFGVSLA<br/> CYSPSLKSVQDQAYKAPVVVEGKVQGLVPAGGSSSNSTREPPASGRVALVKVLDK</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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WPLRSGGLQREQVISVGSCVPLERNQRYIFFLEPTEQPLVFKTAFAPLDTNGKNLKK  
EVGKILCTDCATRPKLKKMKSQTGQVGEKQSLKCEAAAGNPQPSYRWFKDGKELN  
RSRDIRIKYGNRKN SRLQFNKVKVEDAGEYVCEAENILGKDTVGRGLYVNSVSTTL  
SSWSGHARKCNETAKSYCVNGGVCIYIEGINQLSCKCPVGYTGDRCCQFAMVNF  
KHLGFELKEAEELYQKRVLTITGICVALLVVGIVCVVAYCKTKKQRKQMHNLHRQNM  
CPAHQNRSLANGPSHPRLDPEEIQMADYISKNPATDHVIRRETETTFSGSHSCSPS  
HHCSTATPTSSH RHESHTWSLERSSELTSDSQSGIMLSSVGTSKCN SPACVEARAR  
RAAAYNLEER RRATAPPYHDSVDSL RDS PHSERVYSALTTPARLSPVDFHYSLATQ  
VPTFEITSPNSAHAVSLPPAAPISYRLAEQQPLL RHPAPP GPGPGPGPGPGPGADM  
QRSYDSYYP AAGPGPRRGTCALGGS LGSLPASPFRIPEDEYETTQECAPPPPPR  
PRARGASRRTSAGPRRWRRSRLNGLAAQRARAARDLSLSLSSGSGGGSASASDDD  
ADDADGALAAESTPFLGLRG AHDALRSDSPPLCPAADSRTYYSLDSHSTRASSRHS  
RGPPPPRAKODSAPL

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|-----------------------|-----------------------------------------------------------------|
| <b>Storage</b>        | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| <b>Storage Buffer</b> | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                 |

## GENE INFORMATION

|                 |                                                                                                                                                                                                                                                                     |
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| Gene Name       | NRG2 neuregulin 2 [ Homo sapiens ]                                                                                                                                                                                                                                  |
| Official Symbol | NRG2                                                                                                                                                                                                                                                                |
| Synonyms        | NRG2; neuregulin 2; pro-neuregulin-2, membrane-bound isoform; divergent of neuregulin 1; Don 1; HRG2; neural and thymus derived activator for ErbB kinases; NTAK; pro-NRG2; divergent of neuregulin-1; neural- and thymus-derived activator for ErbB kinases; DON1; |
| Gene ID         | 9542                                                                                                                                                                                                                                                                |

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| <b>mRNA Refseq</b>         | <a href="#">NM_001184935</a>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | <a href="#">NP_001171864</a>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>                 | <a href="#">603818</a>                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | O14511                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 5q23-q33                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | Downregulation of ERBB2:ERBB3 signaling, organism-specific biosystem; ErbB receptor signaling network, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem; ErbB2/ErbB3 signaling events, organism-specific biosystem; GRB2 events in ERBB2 signaling, organism-specific biosystem; |
| <b>Function</b>            | ErbB-3 class receptor binding; epidermal growth factor receptor binding; epidermal growth factor-activated receptor activity; growth factor activity; receptor binding;                                                                                                                                                                                                                                            |