

Product datasheet for SC304024

NRG1 (NM_013962) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | NRG1 (NM_013962) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NRG1 |
| Synonyms: | ARIA; GGF; GGF2; HGL; HRG; HRG1; HRGA; MST131; MSTP131; NDF; NRG1-IT2; SMDF |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene ORF sequence for NM_013962 edited
 ATGAGATGGCGACGCGCCCCGCGCGCTCCGGGCGTCCCGGCCCCCGGGCCAGCGCCCC
 GGCTCCGCGCCCGCTCGTCGCGCCGCTGCGCGTGTGCCACTACTGCTGCTGCTGGG
 ACCGCGGCCCTGGCGCCGGGGCGGCGCGCAACGAGCGGCTCCCGGGGGCTCG
 GTGTGCTACTCGTCCCCGCCAGCGTGGGATCGGTGACAGGAGCTAGCTCAGCGCGCGG
 GTGGTGTGACGAGGAAAGGTGCACCCGACGCGCGCAGCAGGGGGCACTCGACAGGAAG
 GCGGGCGCGCGGGCGAGGCAGGGGCGTGGGGCGGCGATCGCGAGCCGCCAGCCGCG
 GGCCACGGGCGTGGGGCGCCCGAGGAGCCGCTGCTCGCCGCAACGGGACCGTG
 CCCTCTTGGCCACCGCCCGGTGCCAGCGCGGCGAGCCGGGAGGAGGCCCTAT
 CTGGTGAAGGTGCACCAGGTGTGGGCGGTGAAAGCCGGGGCTTGAAGAAGGACTCGCTG
 CTCACCGTGCCTGGGACCTGGGGCCACCCCGCCTTCCCTCTGCGGAGGCTCAAG
 GAGGACAGCAGGTACATCTTCTTATGGAGCCGACGCCAACAGCACCAGCCGCGCGCC
 GCCGCTTCCGAGCCTTTTCCCCCTTGGAGACGGGCCGGAACCTCAAGAAGGAGGTC
 AGCCGGGTGCTGTGCAAGCGGTGCGCCTTGCCCTCCCAATTGAAAGAGATGAAAAGCCAG
 GAATCGGCTGCAGGTTCCAACTAGTCCTTCGGTGTGAAACCAGTTCTGAATACTCCTCT
 CTCAGATCAAGTGGTTCAAGATGGGAATGAATTGAATCGAAAAACAAACCACAAAAT
 ATCAAGATACAAAAAGCCAGGGAAGTCAGAACTTCGCATTAACAAAGCATCACTGGCT
 GATTCTGGAGAGTATATGTGCAAAGTATCAGCAAATAGGAAATGACAGTGCCTCTGCC
 AATATCACCATCGTGAATCAAACGCTACATCTACATCCACTGGGACAAGCCATCTT
 GTAAAATGTGCGGAGAAGGAGAAAACTTTCTGTGTGAATGGAGGGAGTGCTTCATGGT
 AAAGACCTTTCAAACCCCTCGAGATACTTGTGCAAGTGCCCAAATGAGTTTACTGGTGAT
 CGTGCCAAAACCTACGTAATGGCCAGCTTCTACAGTACGTCCACTCCCTTCTGTCTCTG
 CCTGAATAG



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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_013962 unedited GGAGCTTGATGATACGACTCCTATAGGGCGGCCGCAATTCGCCCTTAATAAATAAAAGG AGGAGGGCAAGGGGGGAGGAGGAGGAGTGGTGCTGCGAGGGGAAGGAAAAGGGAGGCAGC GCGAGAGAGCCGGGCAGAGTCCGAACCGACAGCCAGAAGCCCGCACGCACCTCGCACCAT GAGATGGCGACGCGCCCCGCGCCGCTCCGGGCGTCCCGGCCCGGGCCAGCGCCCCGG CTCCCGCCCGCTCGTCGCGCCGCTGCCGCTGCTGCCACTACTGCTGCTGCTGGGGAC CGCGCCCTGGCGCCGGGGCGCGCCGCAACGAGGCGGCTCCCGCGGGGGCCTCGGT GTGCTACTCGTCCCCGCCAGCGTGCGATCGGTGCAGGAGCTAGCTCAGCGCGCCGCGGT GGTGATCGAGGAAAGGTGCACCCGACGCGCGGCGAGCGGGGCACTCGACAGGAAGGC GGCGCGCGCGCGGGCGAGGCGAGGGCGTGGGGCGGCGATCGCGAGCCGCCAGCCGCGGG CCCACGGGCGCTGGGGCCCGCCGAGGAGCCGCTGCTCGCGCCAACGGGACCGTGCC CTCTTGGCCACCGCCCGGTGCCAGCGCGGCGAGCCGGGGAGGAGGCGCCATCT GGTGAAGTGCACCAAGTGTGGGCGGTGAAAGCCGGGGCTTGAAGAAGACTCGTGCTCA CCGTGCGCTGGGACCTGGGGCCACCCGCTTCCCCTCTGCGGGAGGCTCAAGGAGG ACAGCAGTACATCTTCTCATGGAGCCTGACGCCACAGCACCAGCCGCGCGCCGCGCCG TTCGAGCCTTTCCCCCTCTGGAGACGCGCCGGAACCTCAAGAAGGAGGTGAGCCGGGT GCTGTGCAGCGGTGCGC |
| Restriction Sites: | Please inquire |
| ACCN: | NM_013962 |
| Insert Size: | 1269 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid. |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | <u>NM_013962.1</u> , <u>NP_039256.1</u> |
| RefSeq Size: | 1986 bp |
| RefSeq ORF: | 1269 bp |
| Locus ID: | 3084 |
| UniProt ID: | <u>Q02297</u> |
| Cytogenetics: | 8p12 |

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| Protein Families: | Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane |
| Protein Pathways: | ErbB signaling pathway |
| Gene Summary: | <p>The protein encoded by this gene is a membrane glycoprotein that mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. An extraordinary variety of different isoforms are produced from this gene through alternative promoter usage and splicing. These isoforms are expressed in a tissue-specific manner and differ significantly in their structure, and are classified as types I, II, III, IV, V and VI. Dysregulation of this gene has been linked to diseases such as cancer, schizophrenia, and bipolar disorder (BPD). [provided by RefSeq, Apr 2016]</p> <p>Transcript Variant: This variant (GGF2), which uses the type II promoter, is expressed in the nervous system and functions as a neuronal signal that promotes the proliferation and survival of the oligodendrocyte and the myelinating cell. This variant contains alternate 5' and 3' terminal exons and thus differs in the 5' and 3' coding regions and in both UTRs, and it also lacks two alternate in-frame exons in the central coding region, compared to variant HRG-beta1. The resulting isoform (GGF2, also known as GGFHBS5) has distinct N- and C-termini, lacks an internal segment, and is shorter than isoform HRG-beta1.</p> |