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Product datasheet for SC310625

NRG1 (NM_004495) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_004495) 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:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_004495 edited GGGCTCGCGCGGAGGCCAGGAGCTGAGCGGCGGCGGCTGCCGGACGATGGGAGCGTGAGC AGGACGGTGATAACCTCTCCCCGATCGGGTTGCGAGGGCGCCGGGCAGAGGCCAGGACGC GAGCCGCCAGCGGCGGGACCCATCGACGACTTCCCGGGGCGACAGGAGCAGCCCCGAGAG CCAGGGCGAGCGCCCGTTCCAGGTGGCCGGACCGCCCGCCGCGTCCGCGCCGCGCTCCCT GCAGGCAACGGGAGACGCCCCCGCGCAGCGCGAGCGCCTCAGCGCGGCCGCTCGCTCTCC CCATCGAGGGACAAACTTTTCCCAAACCCGATCCGAGCCCTTGGACCAAACTCGCCTGCG CCGAGAGCCGTCCGCGTAGAGCGCTCCGTCTCCGGCGAGATGTCCGAGCGCAAAGAAGGC AGAGGCAAAGGGAAGGGCAAGAAGAAGGAGCGAGGCTCCGGCAAGAAGCCGGAGTCCGCG GCGGGCAGCCAGAGCCCAGCCTTGCCTCCCCGATTGAAAGAGATGAAAAGCCAGGAATCG GCTGCAGGTTCCAAACTAGTCCTTCGGTGTGAAACCAGTTCTGAATACTCCTCTCTCAGA TTCAAGTGGTTCAAGAATGGGAATGAATTGAATCGAAAAAACAAACCACAAAATATCAAG ATACAAAAAAAGCCAGGGAAGTCAGAACTTCGCATTAACAAAGCATCACTGGCTGATTCT GGAGAGTATATGTGCAAAGTGATCAGCAAATTAGGAAATGACAGTGCCTCTGCCAATATC ACCATCGTGGAATCAAACGAGATCATCACTGGTATGCCAGCCTCAACTGAAGGAGCATAT GTGTCTTCAGAGTCTCCCATTAGAATATCAGTATCCACAGAAGGAGCAAATACTTCTTCA TCTACATCTACATCCACCACTGGGACAAGCCATCTTGTAAAATGTGCGGAGAAGGAGAAA ACTTTCTGTGTGAATGGAGGGGAGTGCTTCATGGTGAAAGACCTTTCAAACCCCTCGAGA TACTTGTGCAAGTAA
Restriction Sites:	Please inquire
ACCN:	NM_004495
Insert Size:	1000 bp

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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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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:	NM_004495.1, NP_004486.1
RefSeq Size:	1651 bp
RefSeq ORF:	636 bp
Locus ID:	3084
Cytogenetics:	8p12
Domains:	ig, IGc2, IG
Protein Families:	Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane
Protein Pathways:	ErbB signaling pathway
Gene Summary:	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] Transcript Variant: This variant (HRG-gamma), which uses the type I promoter, lacks multiple 3' exons but contains an alternate 3' terminal exon that results in an early stop codon, compared to variant HRG-beta1. The resulting isoform (HRG-gamma) is shorter at the C-terminus, compared to isoform HRG-beta1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.