

Product datasheet for **SC327633**

NRG3 (NM_001165972) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRG3 (NM_001165972) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRG3
Synonyms:	HRG3; pro-NRG3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001165972, the custom clone sequence may differ by one or more nucleotides

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ATGAGTGAAGGGGCGGCCGCTGCCTCGCCACCTGGTGCCGCTTCGGCAGCCGCCGCTCG
GCCGAGGAGGGCACCGCGGGCGCTGCGGCGGGCAGCGGGCGGGGGCCGGACGGC
GGCGGCGAAGGGGCGGCCGAGCCCCCGGGAGTTACGCTGTAGCGACTGCATCGTGTGG
AACCGGCAGCAGACGTGGCTGTGCGTGGTACCTCTGTTTCATCGGCTTCATCGGCCTGGG
CTCAGCCTCATGCTTCTCAAATGGATCGTGGTGGGCTCCGTCAAGGAGTACGTGCCACCC
GACCTAGTGGACTCCAAGGGGATGGGCCAGGACCCCTTCTTCTCCTCCAAGCCCAGCTCT
TTCCCAAGGCCATGGAGACCACCACCTACCACTTCCACCACGTCCCCGCCACCCCC
TCCGCCGGGGTGCCGCTCCTCCAGGACGCCAACCGGATTAGCACTCGCCTGACCACC
ATCACGCGGGCGCCACTCGCTTCCCCGGGCACCGGGTGCATCCGGGCCAGCCCGCGC
TCCACCACAGCACGGAACACTGCGGCCCTGCGACGGTCCCGTCCACCACGGCCCGTTC
TTCAGTAGCAGCAGCTGGGCTCCCGACCCCGGTGCCAGGAATCCAAGTACCCAGGCA
ATGCCCTCCTGGCTACTGCGGCATACGCTACCTCCTACCTTACGATTCTACTCCC
TCCTGGACCTGTCTCCCTTTCAGGATGCTGCCTCCTCTTCTTCTTCTTCTCCTCC
GCTACCACCACCACAGAAACTAGCACCAGCCCAAATTTTCATACGAGGACATATTCC
ACAGAGCGATCCGAGCACTTCAAACCTGCCGAGACAAGGACCTTGCATCTGTCTCAAT
GATGGCGAGTGCTTTGTGATCGAAACCTGACCGGATCCATAAACACTGTCCGGTCAAA
GAAGGCTACCAAGGAGTCCGTTGTGATCAATTTCTGCCGAAAACCTGATCCATCTTATCG
GATCCAAACCACTGGGGATTGAATTCATGGAGAGTGAAGAAGTTATCAAAGGCAGGTG
CTGTCAATTTTCATGTATCATCTTTGGAATTGTCATCGTGGGCATGTTCTGTGCAGCATT
TACTTCAAAGCAAGAAACAAGCTAAACAAATCCAAGAGCAGCTGAAAGTGCCACAAAAT
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AAAATGATGGAGTCAAGTTTTGTCGGCCCCAGTCATTCCCTGAGGTCCCTTCTCCTGAC
AGAGGAAGCCAGTCTGTCAAACACCACAGGAGTCTATCCTTGTGTCAGCCAGGGCAA
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CTAGGTGGAATTGTGGGACCAGCATATCAGCAACTCGAAGAATCAAGGATCCAGACCAG
GATACGATACCTTGCCAAGGGTATTCATCCAGTGGTTAAAAACCCAACGAAATACATCA
ATAAATATGCAACTGCCTTCAAGAGAGACAAACCCCTATTTTAAAGCTTGGAGCAAAAAG
GACCTGGTGGGCTATTCATCCACAAGGGCCAGTCTGTGCCCATCATCCCTTTCAGTGGGT
TTAGAGGAAACCTGCCTGCAAAATGCCAGGGATTTCTGAAGTCAAAGCATCAAATGGTGC
AAAAACTCCTATTCAGCTGACGTTGTCAATGTGAGTATCCAGTCAGCGATTGTCTTATA
GCAGAACAACAAGAAGTAAAAATTTGCTAGAACTGTCCAGGAGCAGATCCGAATTCTG
ACTGATGCCAGACGGTCAGAAGACTACGAACTGGCCAGCGTAGAAACCGAGGACAGTGCA
AGCGAAAACACAGCCTTCTCCCTGAGTCCCACAGCCAAATCAGAACGAGAGGGCGCAA
TTTGTCTTAAGAAATGAAATACAAAGAGACTCTGCATTGACCAAG

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Restriction Sites: Please inquire

ACCN: NM_001165972

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:	<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_001165972.1, NP_001159444.1</u>
RefSeq Size:	3689 bp
RefSeq ORF:	2088 bp
Locus ID:	10718
Cytogenetics:	10q23.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ErbB signaling pathway
Gene Summary:	<p>This gene is a member of the neuregulin gene family. This gene family encodes ligands for the transmembrane tyrosine kinase receptors ERBB3 and ERBB4 - members of the epidermal growth factor receptor family. Ligand binding activates intracellular signaling cascades and the induction of cellular responses including proliferation, migration, differentiation, and survival or apoptosis. This gene encodes neuregulin 3 (NRG3). NRG3 has been shown to activate the tyrosine phosphorylation of its cognate receptor, ERBB4, and is thought to influence neuroblast proliferation, migration and differentiation by signalling through ERBB4. NRG3 also promotes mammary differentiation during embryogenesis. Linkage studies have implicated this gene as a susceptibility locus for schizophrenia and schizoaffective disorder. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described but their biological validity has not been verified.[provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in a protein (isoform 2) that is one amino acid shorter, compared to isoform 1.</p>