

Product datasheet for **RC213122**

NRG2 (NM_013981) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRG2 (NM_013981) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NRG2
Synonyms:	DON1; HRG2; NTAK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Protein Sequence: >RC213122 representing NM_013981
Red=Cloning site Green=Tags(s)

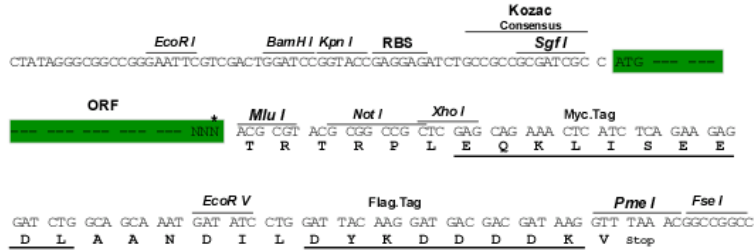
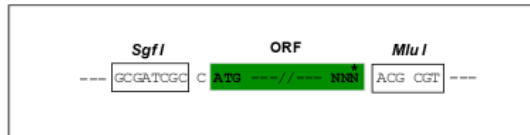
MRQVCCSALPPPLEKGRCSYSDSSSSSSERSSSSSSSESGSSSRSSNNSSISRPAAPPEPRPQQQ
PQPRSPAARRAAARSRAAAAGGMRRDPAPGFSMLLFGVSLACYSPSLKSVQDQAYKAPVVVEGKVQGLVP
AGGSSSNSTREPPASGRVALVKVLDKWPLRSGGLQREQVISVGSVCVPLERNQRYIFFLEPTEQPLVFKTA
FAPLDTNGKNLKKEVGKILCTDCATRPKLLKMKSQGTGQVGEKQSLKCEAAAGNPQPSYRWFKDGKELNRS
RDIRIKYNGRKNRSLQFNKVKVEDAGEYVCEAENILGKDTVGRGLYVNSVSTLSSWSGHARKCNETAK
SYCVNGGVCCYIEGINQLSCKCPVGYTGDRCCQFAMVNFSAEELYQKRVLTITGICVALLVVGIVCVVA
YCKTKKQRKQMHNLQRNMCPAHQNRSLANGPSPRLDPEEIQMADYISKNVPATDHVIRRETETTFSGS
HSCSPSHHCSTATPTSSHRHESHTWLERSESLTSDSQSGIMLSSVGTSKCNSPACVEARARRAAAYNLE
ERRRATAPPYHDSVDSL RDSPHSERYVSALTPARLSPVDFHYSLATQVPTFEITSPNSAHAVSLPPAAP
ISYRLAEQQPLL RHPAPP GPGPGPGPGADMQRSYDSYYP AAGP GPRRGTCALGGS LGSLPAS PFR
IPEDDEYETTQECAPPPPRPRARGASRRTSAGPRRWRRSRLNGLAAQRARAARDLSLS SSGSGGSASA
SDDDDADDADGALAAESTPFLGLRGAHDALRSDSPPLCPAADSRTYYSLD SHSTRASSRHSRGP PPRAKQD
SAPL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

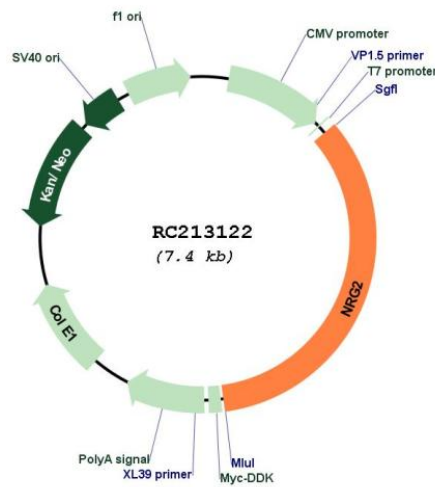
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_013981
ORF Size:	2532 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_013981.4
RefSeq Size:	3921 bp
RefSeq ORF:	2535 bp
Locus ID:	9542
UniProt ID:	O14511
Cytogenetics:	5q31.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ErbB signaling pathway
MW:	90.9 kDa

Gene Summary:

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. [provided by RefSeq, May 2010]