

Product datasheet for RC220302

NRG1 (NM_013961) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_013961) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NRG1
Synonyms:	ARIA; GGF; GGF2; HGL; HRG; HRG1; HRGA; NDF; SMDF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC220302 representing NM_013961 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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MSERKEGRGKGKGKKKERGSGKKPESAAGSQSPALPPQLKEMKSQESAAGSKLVLRCETSSEYSSLRFKW FKNGNELNRKNKPQNIKIQKKPGKSELRINKASLADSGEYMCKVISKLGNDSASANITIVESNEIITGMP ASTEGAYVSSESPIRISVSTEGANTSSSTSTSTTGTSHLVKCAEKEKTFCVNGGECFMVKDLSNPSRYLC KCPNEFTGDRCQNYVMASFYSTSTPFLSLPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

* The last codon before the Stop codon of the ORF

https://cdn.origene.com/chromatograms/mk6681_b03.zip

Chromatograms:	
Restriction Sites:	

Cloning Scheme:

ORF	M	lu I	Not /			Xho I		Myc.Tag						
1	ACG T	CGT R	ACG T	CGG (R	P L	C GAG	CAG Q	AAA K	CTC L	ATC I	TCA S	GAA E	GAG E	
												_		
	EcoR V			Fla	ig. Tag					P	me I	F	se /	
GAT CTG GCA GCA AAT (GAT ATC	CTG	GAT (TAC A	AG GAT	GAC	GAC	GAT	AAG	GTT	TAA	ACGG	COGGOC	
DLAAN	DI	L	D	Y I	K D	D	D	D	к	v	Stop			

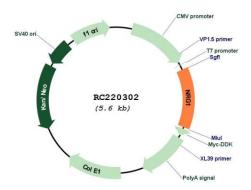
ACCN:	NM_013961
ORF Size:	723 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
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).

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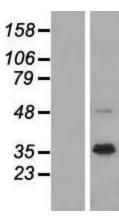
CRIGENE NRG1 (NM_013961) Human Tagged ORF Clone – RC220302

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 013961.2, NP 039255.1</u>
RefSeq Size:	1703 bp
RefSeq ORF:	725 bp
Locus ID:	3084
Cytogenetics:	8p12
Domains:	ig, IGc2, IG, EGF, EGF
Protein Families:	Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane
Protein Pathways:	ErbB signaling pathway
MW:	26 kDa
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]

Product images:



Circular map for RC220302

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Western blot validation of overexpression lysate (Cat# [LY415555]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC224945] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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