

Product datasheet for **RC204777**

NRG4 (NM_138573) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NRG4 (NM_138573) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NRG4
Synonyms: HRG4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204777 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

**ATGCCAACAGATCACGAAGAGCCCTGTGGTCCCAGTCACAAGTCGTTTTGCCTGAATGGGGGCTTTGTT
ATGTGATACTACTATCCCAGCCATTTGTAGGTGCGTTGAAACTATACAGGAGCTCGTTGTGAAGA
GGTTTTCTCCCAGGCTCCAGCATCCAACTAAAAGTAACCTGTTGAAGCTTTGTGGCATTGGCGGTC
CTAGTAACACTTATCATTGGAGCCTTCTACTTCCTTTGCAGGAAAGGCCACTTTCAGAGAGCCAGTTCAG
TCCAGTATGATATCAACCTGGTAGAGACGAGCAGTACCAGTGCCACCACAGTCATGAACAACAC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC204777 protein sequence
Red=Cloning site Green=Tags(s)
MPTDHEEPCGSPSHKSFCLNGGLCYVIPTIPSPFCRCVENYTGARCEEVFLPGSSIQTKSNLFEAFVALAV
LVTLIIGAFYFLCRKGHFQRASSVQYDINLVETSSTSAHHSHEQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6062_d04.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_138573

ORF Size: 345 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. [More info](#)

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:**
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_138573.4](#)

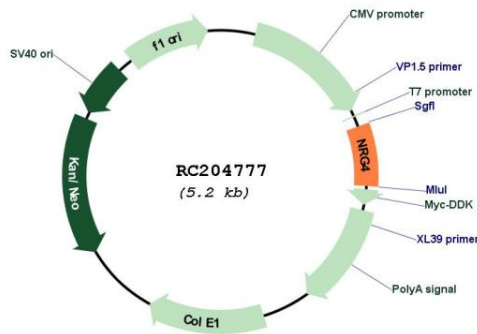
RefSeq Size: 2195 bp

RefSeq ORF: 348 bp

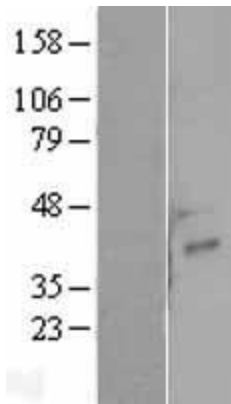
Locus ID: 145957

UniProt ID: [Q8WWG1](#)
Cytogenetics: 15q24.2
Protein Families: Transmembrane
Protein Pathways: ErbB signaling pathway
MW: 12.7 kDa
Gene Summary: The neuregulins, including NRG4, activate type-1 growth factor receptors (see EGFR; MIM 131550) to initiating cell-to-cell signaling through tyrosine phosphorylation (Harari et al., 1999 [PubMed 10348342]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC204777



Western blot validation of overexpression lysate (Cat# [LY403362]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204777 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).