

Product datasheet for **RG216544**

NEDL2 (HECW2) (NM_020760) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEDL2 (HECW2) (NM_020760) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEDL2
Synonyms:	NDHSAL; NEDL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216544 representing NM_020760 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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TTTAGCAGGGCATCCAGAGCTGATGATGGAAGCCTGACATCTCAGACAAAGCTGGAGGACAACCCCTGTTG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

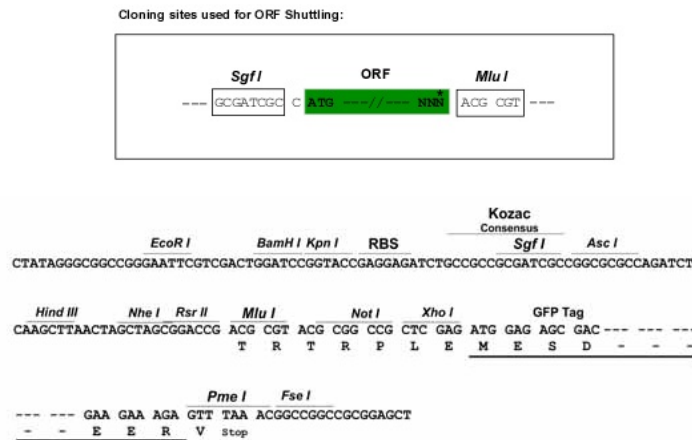
Protein Sequence: >RG216544 representing NM_020760
 Red=Cloning site Green=Tags(s)

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 GQAQNLIIIFWDIKEEVDPSDWIGLYHIDENSPANFWSKNRGVTGTQKGQIVVRIEPPGYFMEPEIKICF
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 FSRASRADDGSLTSQTKLEDNPVENEEASTHEAASFEDKPENLPELAESSLPAGPAPEEGEGGPEPQPSA
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 EGTPGLVRLSSDADLVMLLSLFEIEIMSYPVPHALLHPSYCQSPRGSPVSSPQNSPGTQRANARAPAYK
 RDFEAKLRNFYRKLKLETKGYGQGPGLKLIIRRDHLLLEDAFNQIMGYSRKDLQRNKLVTYFVGEGLDYSG
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 PFYKALLRILCDLSDLEYLDEEFHQSLQWMDNDIHDILDLTFTVNEEVFGQITERELKPGGANIPVTEK
 NKKEYIERMVKWRIERGQVQTESLVRGFYEVVDARLVSVFDARELELVIAGTAEIDLSDWRNNTYRGG
 YHDNHIVIRWFWAVERFNNEQRLRLQLFVTGTSSIPYEGFASLRGNSGPRRRCVEKWKITALPRAHTC
 FNRLDLPYPSPSMLYEKLLTAVEETSTFGLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020760

ORF Size: 4716 bp

OTI Disclaimer: 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.

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_020760.1](#), [NP_065811.1](#)

RefSeq Size: 6926 bp

RefSeq ORF: 4719 bp

Locus ID: 57520

UniProt ID: [Q9P2P5](#)

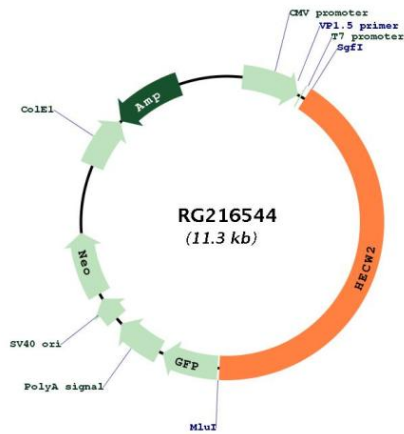
Cytogenetics: 2q32.3

Protein Families: Druggable Genome

Gene Summary:

This gene encodes a member of a family of E3 ubiquitin ligases which plays an important role in the proliferation, migration and differentiation of neural crest cells as a regulator of glial cell line-derived neurotrophic factor (GDNF)/Ret signaling. This gene also plays an important role in angiogenesis through stabilization of endothelial cell-to-cell junctions as a regulator of angiomin-1 stability. The encoded protein contains an N-terminal calcium/lipid-binding (C2) domain involved in membrane targeting, two-four WW domains responsible for cellular localization and substrate recognition, and a C-terminal homologous with E6-associated protein C-terminus (HECT) catalytic domain. Naturally occurring mutations in this gene are associated with neurodevelopmental delay, hypotonia, and epilepsy. The decreased expression of this gene in the aganglionic colon is associated with Hirschsprung's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]

Product images:



Circular map for RG216544