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Product datasheet for RC216942

Neogenin (NEO1) (NM_002499) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neogenin (NEO1) (NM_002499) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neogenin
Synonyms:	IGDCC2; NGN; NTN1R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC216942 representing NM_002499
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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Protein Sequence:

>RC216942 representing NM_002499
Red=Cloning site Green=Tags(s)

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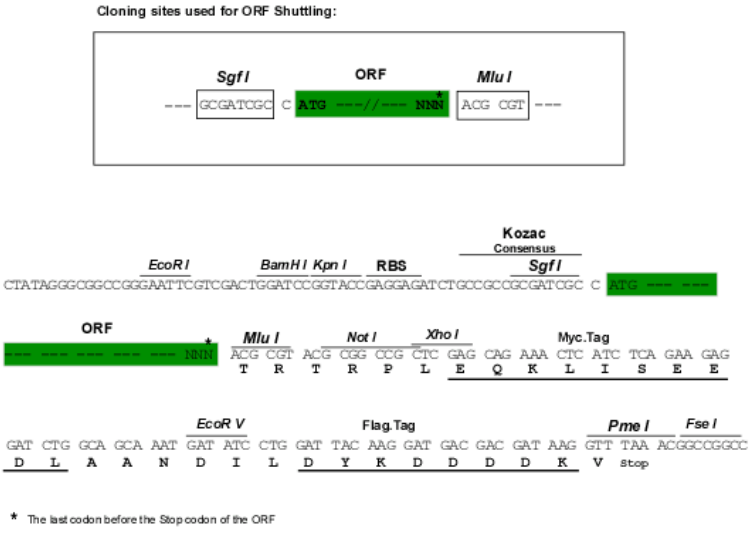
Chromatograms: https://cdn.origene.com/chromatograms/mg2529_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

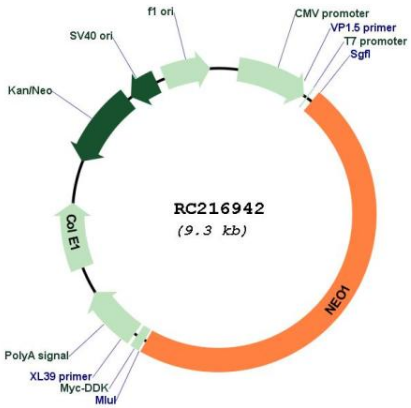


ACCN: NM_002499

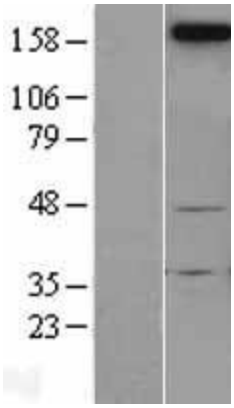
ORF Size: 4383 bp

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_002499.4
RefSeq Size:	5297 bp
RefSeq ORF:	4386 bp
Locus ID:	4756
UniProt ID:	Q92859
Cytogenetics:	15q24.1
Domains:	ig, IGc2, IG, FN3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	160.02 kDa
Gene Summary:	This gene encodes a cell surface protein that is a member of the immunoglobulin superfamily. The encoded protein consists of four N-terminal immunoglobulin-like domains, six fibronectin type III domains, a transmembrane domain and a C-terminal internal domain that shares homology with the tumor suppressor candidate gene DCC. This protein may be involved in cell growth and differentiation and in cell-cell adhesion. Defects in this gene are associated with cell proliferation in certain cancers. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

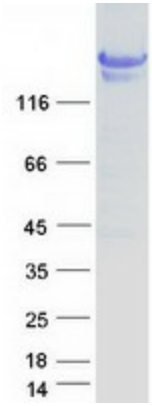
Product images:



Circular map for RC216942



Western blot validation of overexpression lysate (Cat# [LY400890]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216942 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NEO1 protein (Cat# [TP316942]). The protein was produced from HEK293T cells transfected with NEO1 cDNA clone (Cat# RC216942) using MegaTran 2.0 (Cat# [TT210002]).