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Product datasheet for RC230717

Neogenin (NEO1) (NM_001172624) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neogenin (NEO1) (NM_001172624) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEO1
Synonyms:	IGDCC2; NGN; NTN1R2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230717 representing NM_001172624 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGCGGAGCGGGGAGCCCGGCGACTCCTCAGCACCCCCTCCTTCTGGCTCTACTGCCTGCTGCTGC TCGGGCGCCGGGCGCCGGGCGCCGCGGCCGCCAGGAGCGGCTCCGCGCCGCAGTCCCCAGGAGCCAGCAT TCGAACGTTCACTCCATTTTATTTTCTGGTGGAGCCGGTGGATACACTCTCAGTTAGAGGCTCTTCTGTT ATATTAAACTGTTCAGCATATTCTGAGCCTTCTCCAAAAATTGAATGGAAAAAAGATGGAACTTTTTTAA ACTTAGTATCAGATGATCGACGCCAGCTTCTCCCGGATGGATCTTTATTTATCAGCAATGTGGTGCATTC CAAACACAATAAACCTGATGAAGGTTATTATCAGTGTGTGGCCACTGTTGAGAGTCTTGGAACTATTATC AGTAGAACAGCGAAGCTCATAGTAGCAGGTCTTCCAAGATTTACCAGCCAACCAGAACCTTCCTCAGTTT ATGCTGGGAACAATGCAATTCTGAATTGTGAAGTTAATGCAGATTTGGTCCCATTTGTGAGGTGGGAACA GAACAGACAACCCCTTCTTCTGGATGATAGAGTTATCAAACTTCCAAGTGGAATGCTGGTTATCAGCAAT GCAACTGAAGGAGATGGCGGGCTTTATCGCTGCGTAGTGGAAAGTGGTGGGCCACCAAAGTATAGTGATG AAGTTGAATTGAAGGTTCTTCCAGATCCTGAGGTGATATCAGACTTGGTATTTTTGAAACAGCCTTCTCC CTTAGTCAGAGTCATTGGTCAGGATGTAGTGTTGCCATGTGTTGCTTCAGGACTTCCTACTCCAACCATT AAATGGATGAAAAATGAGGAGGCACTTGACACAGAAAGCTCTGAAAGATTGGTATTGCTGGCAGGTGGTA GCCTGGAGATCAGTGATGTTACTGAGGATGATGCTGGGACTTATTTTTGTATAGCTGATAATGGAAATGA GACAATTGAAGCTCAAGCAGAGCTTACAGTGCAAGCTCAACCTGAATTCCTGAAGCAGCCTACTAATATA TATGCTCACGAATCTATGGATATTGTATTTGAATGTGAAGTGACTGGAAAACCAACTCCAACTGTGAAGT GGGTCAAAAATGGGGATATGGTTATCCCAAGTGATTATTTTAAGATTGTAAAGGAACATAATCTTCAAGT TTTGGGTCTGGTGAAATCAGATGAAGGGTTCTATCAGTGCATTGCTGAAAATGATGTTGGAAATGCACAA GCTGGAGCCCAACTGATAATCCTTGAACATGCACCAGCCACAACGGGACCACTGCCTTCAGCTCCTCGGG ATGTCGTGGCCTCCCTGGTCTCTACCCGCTTCATCAAATTGACGTGGCGGACACCTGCATCAGATCCTCA CGGAGACAACCTTACCTACTCTGTGTTCTACACCAAGGAAGGGATTGCTAGGGAACGTGTTGAGAATACC AGTCACCCAGGAGAGATGCAAGTAACCATTCAAAACCTAATGCCAGCGACCGTGTACATCTTTAGAGTTA

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Protein Sequence:

>RC230717 representing NM_001172624
Red=Cloning site Green=Tags(s)

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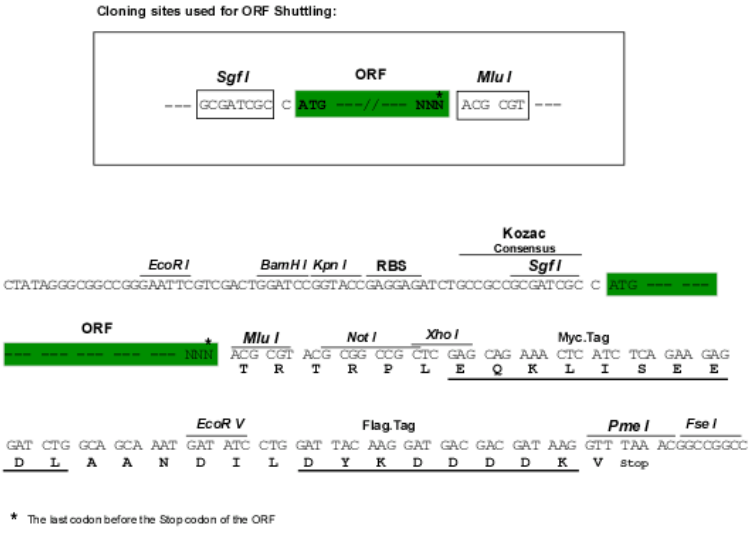
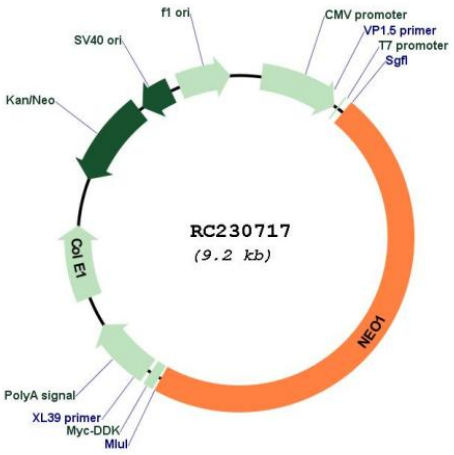
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001172624
ORF Size:	4350 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_001172624.1, NP_001166095.1
RefSeq ORF:	4353 bp
Locus ID:	4756
UniProt ID:	Q92859
Cytogenetics:	15q24.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	159.3 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]