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Product datasheet for RG224928

Nogo B receptor (NUS1) (NM_138459) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nogo B receptor (NUS1) (NM_138459) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nogo B receptor
Synonyms:	C6orf68; CDG1AA; MGC:7199; MRD55; NgBR; TANGO14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224928 representing NM_138459 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGCTGCACGCGCTGCTCTGTCTGCACCGCACGCTCACCT CCTGGCTCCGCGTTCGGTTCGGCACCTGGAACTGGATCTGGCGGCGCTGCTGCCGCGCCGCCTCTGCCGC GGTCCTAGCGCCGCTCGGCTTCACGCTCCGCAAGCCCCCGGCAGTCGGCAGGAACCGCCGTCACCACCGG CACCCGCGCGGGGGGTCGTGCCTGGCAGCCGCACACCACCGGATGCGCTGGCGCGCGGACGGTCGTTCCT TGGAGAAGCTGCCTGTGCATATGGGCCTGGTGATCACCGAGGTGGAGCAGGAACCCAGCTTCTCGGACAT CGCGAGCCTCGTGGTGTGGTGTATGGCCGTGGGCATCTCCTACATTAGCGTCTACGACCACCAAGGTATT TTCAAAAGAAATAATTCCAGATTGATGGATGAAATTTTAAAACAACAGCAAGAACTTCTGGGCCTAGATT GTTCAAAATACTCACCAGAATTTGCAAATAGTAATGACAAAGATGATCAAGTTTTAAATTGCCATTTGGC AGTGAAGGTGCTGTCTCCGGAAGATGGAAAAGCAGATATTGTAAGAGCTGCTCAGGACTTTTGCCAGTTA GTAGCCCAGAAGCAAAAGAGACCCACAGATTTGGATGTAGATACGTTAGCCAGTTTACTTAGTTCAAATG GTTGTCCTGATCCTGATTTAGTATTGAAGTTCGGTCCTGTGGACAGCACATTAGGCTTTCTTCCCTGGCA CATCAGATTGACTGAGATTGTCTCTTTGCCTTCCCACCTAAACATCAGTTATGAGGACTTTTTCTCTGCC CTTCGTCAATATGCAGCCTGTGAACAGCGTCTGGGAAAG ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

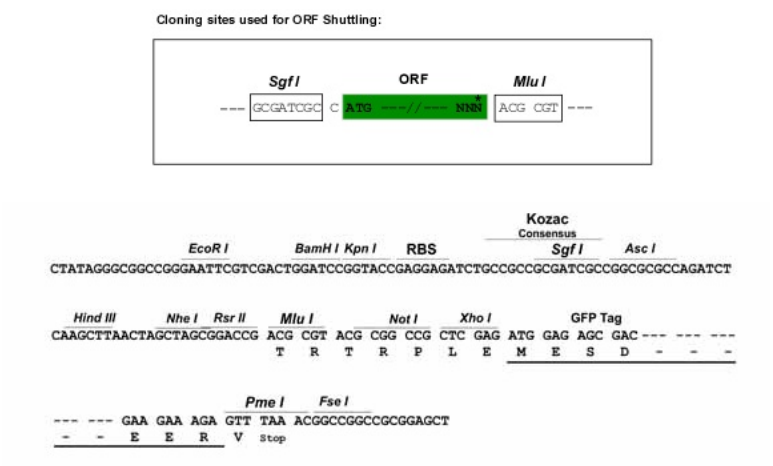
>RG224928 representing NM_138459
Red=Cloning site Green=Tags(s)

MTGLYELVWRVLHALLCLHRTLTSWLRVRFGTWNWIWRRCCRAASAAVLAPLGFTLRKPPAVGRNRRHHR
HPRGGSCLAAAHHRMRWRADGRSLEKLPVHMGLVITEVEQEPSFSDIASLVVWCMAVGISYISVYDHQGI
FKRNNSRLMDEILKQQQELLGLDCSKYSPEFANSNDKDDQVLNCHLAVKVLSPEDGKADIVRAAQDFCQL
VAQKQKRPTDLDVDTLASLLSSNGCPDPDLVLKFGPVDSTLGFLPWHIRLTEIVSLPSHLNISYEDFFSA
LRQYAACEQRLGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138459

ORF Size: 879 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_138459.5

RefSeq Size: 2636 bp

RefSeq ORF: 882 bp

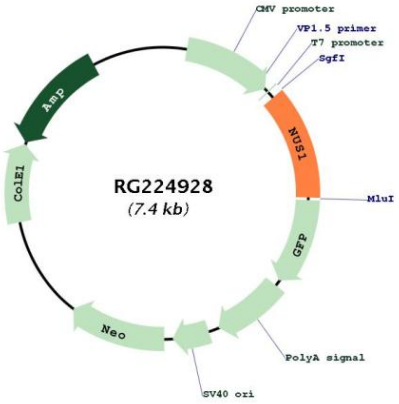
Locus ID: 116150

UniProt ID: Q96E22

Cytogenetics: 6q22.1

Gene Summary: This gene encodes a type I single transmembrane domain receptor, which is a subunit of cis-prenyltransferase, and serves as a specific receptor for the neural and cardiovascular regulator Nogo-B. The encoded protein is essential for dolichol synthesis and protein glycosylation. This gene is highly expressed in non-small cell lung carcinomas as well as estrogen receptor-alpha positive breast cancer cells where it promotes epithelial mesenchymal transition. This gene is associated with the poor prognosis of human hepatocellular carcinoma patients. Naturally occurring mutations in this gene cause a congenital disorder of glycosylation and are associated with epilepsy. A knockout of the orthologous gene in mice causes embryonic lethality before day 6.5. Pseudogenes of this gene have been defined on chromosomes 13 and X. [provided by RefSeq, May 2017]

Product images:



Circular map for RG224928