

Product datasheet for RC235940

Ninjurin2 (NINJ2) (NM_001294345) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ninjurin2 (NINJ2) (NM_001294345) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NINJ2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235940 representing NM_001294345
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATGTATATGCCTGGAAGCTCCGACCCAGGAGCCAGCCCATCAACCTGAACCATTACGCCACCAAGA
 AGAGCGTGGCGGAGAGCATGCTGGACGTGGCCCTGTTTCATGTCCAACGCCATGCGGTGAAGGCGGTGCT
 GGAGCAGGGACCATCCTCTCACTACTACACCACCCTGGTCACCCTCATCAGCCTCTCTGCTCCTGCAG
 GTGGTCATCGGTGCTCTGCTCGTGGTCATTGCACGGCTGAACCTGAATGAGGTAGAAAAGCAGTGGCGAC
 TCAACCAGCTCAACAACGCAGCCACCATCTTGGTCTTCTCACTGTGGTCATCAATGTTTTCATTACAGC
 CTTCGGGGCACATAAAACAGGGTTCCTGGCTGCCAGGGCCTCAAGGAATCCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235940 representing NM_001294345
 Red=Cloning site Green=Tags(s)

MMYMPGSSDPRSQPINLNHYATKKSVAESMLDVALFMSNAMRLKAVLEQGPSSHYTTLVTLISLSLLQ
 VVIGVLLVVIARLNLNEVEKQWRLNQLNNAATILVFFTVVINVFITAFGAHKTGFLAARASNPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

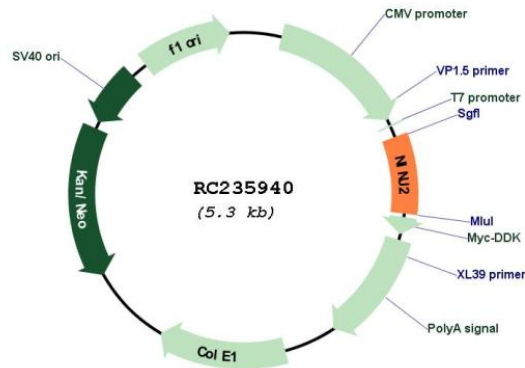


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001294345

ORF Size: 405 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:	<ol style="list-style-type: none">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:	<u>NM_001294345.2</u>
RefSeq Size:	879 bp
RefSeq ORF:	408 bp
Locus ID:	4815
UniProt ID:	<u>Q9NZG7</u>
Cytogenetics:	12p13.33
Protein Families:	Transmembrane
MW:	15.4 kDa
Gene Summary:	The protein encoded by this gene belongs to the ninjurin (for nerve injury induced) family. It is a cell surface adhesion protein that is upregulated in Schwann cells surrounding the distal segment of injured nerve, and promotes neurite outgrowth, thus may have a role in nerve regeneration after nerve injury. [provided by RefSeq, Oct 2011]