

Product datasheet for **RC233034**

NRXN3 (NM_001272020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRXN3 (NM_001272020) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NRXN3
Synonyms:	C14orf60
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC233034 representing NM_001272020
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCACCTGAGAATCCACGCGAGACGGAGCCCTCCTCGCCGGCCGGCCTGGACGCTTGGGATCTGGTTCC
TGTTCTGGGGATGTATCGTCAGCTCTGTATGGAGTTCTTCTAATGTAGCTTCCTCCTCCACCTTTC
CTCGCCGGGGTCTCACTCTCAGCACGAGACCATTTCATGGCAGCAAGCATCACTCAGTGCCTATTTCT
ATCTATCGTTCCTGTTCCCTTCGAGGAGGACGCTGGCGCTACGTACATCTTTGGGAAAAGTGGTG
GGCTTATCCTCTACACCTGGCCAGCCAATGACAGGCCAGCACGGCTGACCGCTTGGCGTGGGCTT
CAGCACCACTGTGAAGGATGGCATCTTGGTCCGCATCGACAGTGTCCAGGACTTGGTGACTTCTCCAG
CTTCACATAGAACAGGGGAAAATGGAGTTGTCTCAACATTGGCACAGTTGACATCTCCATCAAAGAGG
AGAGAACCCTGTAAATGACGGCAAATACCATGTGGTACGCTTACCAGGAACGGCGGCAACGCCACCCT
GCAGGTGGACAACCTGGCCAGTGAATGAACATTATCCTACAGGCCGGCAGTTAACCATCTTCAACACTCAG
GGCAAATAGCCATTGGTGGAAAGGACAAAGGACGCCTTCCAAGGCCAACTCTCTGGGCTCTATTATG
ATGGTTTGAAGTACTGAACATGGCGGCTGAGAACAACCCCAATATTAATAATCAATGGAAGTGTTCGGCT
GGTTGGAGAAGTCCCATCAATTTTGGGAACAACACAGACGACCTCCATGCCACCAGAAAATGTCTACTACT
GTCATGGAAACCACTACTACAATGGCGACTACCACAACCCGTAAGAAATCGCTCTACAGCCAGCATTACAGC
CAACATCAGATGATCTTGTTCATCTGTGAATGTTCAAGTATGATGAAGACTTGTGTAATGTGAGCC
GAGTACAGGAGGTGAATTAGTTATCCCTCTTCTGTAGAAGACCCCTTAGCTACCCCTCCTATTGCTACT
CGTGCACCTTCCATTACACTCCCCCTACCTTTCGCCCCCTCCTCACCATTATTGAGACCACCAAAGATT
CCCTGTCCATGACCTCTGAGGCGGGTTACCTTGTCTGCGACCAAGGCAGCGATGTTGTGATGATGA
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GATTTTTACACCACCTTCTCCTTGGTAACAGATAAGAGTCTTTCACTTCAATCTTGAAGTGGCTACA
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TACCACATCTTTATCCCCTGAGCTGATCCGCTTACAGCTTCTCCTCGTCTGGGATGGTGCCCAAATTG
CCAGCTGGCAAAATGAATAACCGTGATCTCAAACCCAGCCTGATATAGTCTTGGCTTCCGTTGCCCACTG
CCTATGAGCTAGACAGCACCAAACCTGAAGAGCCCACTAATTACTTCCCCATGTTCCGTAATGTGCCAC
AGCAAACCCACGGAGCCGGGAATCAGACGGGTCCGGGGCCTCAGAGGTGATCCGGGAGTCGAGCAGC
ACAACAGGGATGGTCGTGGCATTGTGGCTGCTGCCGCCCTCTGCATCTTGATCCTCCTGTACGCCATGT
ACAAGTACAGGAACAGGGACGAGGGTCTATCAAGTGGACGAGACGCGGAACTACATCAGCAACTCCGC
CCAGAGCAACGGCAGCTCATGAAGGAGAAGCAGCAGAGCTCGAAGAGCGGCCACAAGAAACAGAAAAAC
AAGGACAGGGAGTATTACGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC233034 representing NM_001272020
 Red=Cloning site Green=Tags(s)

MHLRIHARRSPRRPAWTLGIWFLWGCIVSSVWSSSNVASSSTSSSPGSHSQHEHHFHGSKHHSVPIS
 IYRSPVSLRGGHAGATYIFGKSGGLILYTWPANDRPSTRSDRLAVGFSTTVKDGILVRIDSAPGLGDFLQ
 LHIEQGIQVFNIGTVDISIKEERTPVNDGKYHVVRFRNGGNATLQVDNWPVNEHYPTGRQLTIFNTQ
 AQIAIGGKDKGRLLFQGLSGLYYDGLKVLNMAAENPNKINGSVRLVGEVPSILGTTQTTSMPPEMSTT
 VMETTTTMTTTRKNRSTASIQPTSDDLVSSAECSSDDEDFVECEPSTGGELVIPLLVEDPLATPPIAT
 RAPSITLPPFRPLLTIETTKDSL SMTSEAGLPCLSDQSGDGCDDGLVISGYSGSETFDNLPPDDE
 DFYTTFLVTDKSLSTSIFEGGYKAHAPKWKDFRPNKVSETSRTTTTLSPELIRFTASSSSGMVPKL
 PAGKMNRDLKQPDI VLLPLPTAYELDSTKLK SPLITSPMFRNVPTANPTEPGIRRVP GASEVIRESS
 TTGMVVGIVAAAALCILLIYAMYKYRNRDEGSYQVDETRNYISNSAQSNGLMKEKQQSSKSGHKKQKN
 KDREYYY

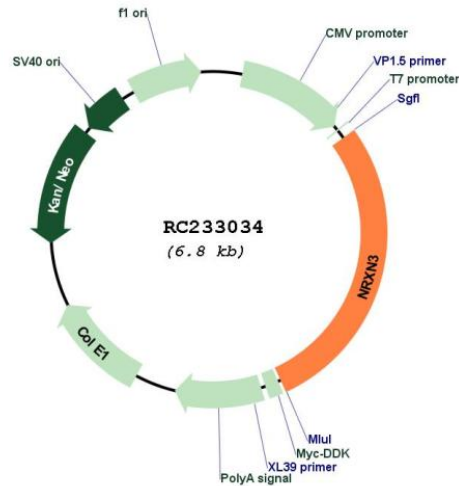
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001272020

ORF Size: 1911 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_001272020.2](#)

RefSeq Size:	9193 bp
RefSeq ORF:	1914 bp
Locus ID:	9369
UniProt ID:	Q9HDB5
Cytogenetics:	14q24.3-q31.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	69.8 kDa
Gene Summary:	<p>This gene encodes a member of a family of proteins that function in the nervous system as receptors and cell adhesion molecules. Extensive alternative splicing and the use of alternative promoters results in multiple transcript variants and protein isoforms for this gene, but the full-length nature of many of these variants has not been determined. Transcripts that initiate from an upstream promoter encode alpha isoforms, which contain epidermal growth factor-like (EGF-like) sequences and laminin G domains. Transcripts initiating from the downstream promoter encode beta isoforms, which lack EGF-like sequences. Genetic variation at this locus has been associated with a range of behavioral phenotypes, including alcohol dependence and autism spectrum disorder. [provided by RefSeq, Dec 2012]</p>