

Product datasheet for **RG233034**

NRXN3 (NM_001272020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRXN3 (NM_001272020) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRXN3
Synonyms:	C14orf60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG233034 representing NM_001272020
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACCTGAGAATCCACGCGAGACGGAGCCCTCCTCGCCGGCCGGCCTGGACGCTTGGGATCTGGTTCC
 TGTCTGGGGATGTATCGTCAGCTCTGTATGGAGTTCTTCTAATGTAGCTTCCTCCTCCTCCACCTTTC
 CTCGCCGGGGTCTCACTCTCAGCACGAGACCATTTCATGGCAGCAAGCATCACTCAGTGCCTATTCTT
 ATCTATCGTTCCCTGTTTCCCTTCGAGGAGGACACGCTGGCGCTACGTACATCTTTGGGAAAAGTGGTG
 GGCTTATCCTCTACACCTGGCCAGCCAATGACAGGCCACGACGCGGTCTGACCGCCTTGCCGTGGGCTT
 CAGCACCCTGTGAAGGATGGCATCTTGGTCCGCATCGACAGTGTCCAGGACTTGGTGACTTCTCCAG
 CTTACATAGAACAGGGGAAAATGGAGTTGTCTCAACATTGGCACAGTTGACATCTCCATCAAAGAGG
 AGAGAACCCTGTAAATGACGGCAAATACCATGTGGTACGCTTACCAGGAACGGCGGCAACGCCACCCT
 GCAGGTGGACAACCTGGCCAGTGAATGAACATTATCCTACAGGCCGGCAGTTAACCATCTTCAACACTCAG
 GCGCAAATAGCCATTGGTGGAAAGGACAAAGGACGCCTCTTCCAAGGCCAACTCTCTGGGCTCTATTATG
 ATGGTTTGAAAAGTACTGAACATGGCGGCTGAGAACAACCCCAATATTAATAATCAATGGAAGTGTTCGGCT
 GGTGGAGAAGTCCCATCAATTTTGGGAACAACACAGACGACCTCCATGCCACCAGAAAATGTCTACTACT
 GTCATGGAACCCTACTACAATGGCGACTACCACAACCCGTAAGAAATCGCTCTACAGCCAGCATTACAGC
 CAACATCAGATGATCTTGTTCATCTGCTGAATGTTCAAGTATGATGAAGACTTGTGTAATGTGAGCC
 GAGTACAGGAGGTGAATTAGTTATCCCTCTTCTGTAGAAGACCCCTTAGCTACCCCTCCTATTGCTACT
 CGTGCACCTTCCATTACACTCCCCCTACCTTTCGCCCCCTCCTACCATTATTGAGACCACCAAAGATT
 CCCTGTCCATGACCTCTGAGGCGGGTTACCTTGTCTGCGGACCAAGGCAGCGATGGTTGTGATGATGA
 TGCTTGGTGATATCTGGGTATGGCTCAGGGGAAACCTTTGACTCTAACCTGCCCCCTACTGATGATGAA
 GATTTTTACACCACCTTCTCCTTGGTAACAGATAAGAGTCTTTCACCTTCAATCTTGAAGTGGCTACA
 AAGCATGCGCCCAAGTGGGAATCCAAGGACTTTAGACCTAACAAAGTCTCCGAAACTAGTAGGACTAC
 TACCACATCTTTATCCCCTGAGCTGATCCGCTTACAGCTTCTCCTCGTCTGGGATGGTGCCCAAATTG
 CCAGCTGGCAAAATGAATAACCGTATCTCAAACCCAGCCTGATATAGTCTTGTCTCCGTTGCCCACTG
 CCTATGAGCTAGACAGCACCAAACCTGAAGAGCCCACTAATTACTTCCCCATGTTCCGTAATGTGCCAC
 AGCAAACCCACGAGCCGGGAATCAGACGGGTCCGGGGGCTCAGAGGTGATCCGGGAGTCGAGCAGC
 ACAACAGGGATGGTCGTGGCATTGTGGCTGCTGCCGCCCTCTGCATCTTATCCTCTGTACGCCATGT
 ACAAGTACAGGAACAGGGACGAGGGTCTATCAAGTGGACGAGACGCGGAACTACATCAGCAACTCCGC
 CCAGAGCAACGGCAGCTCATGAAGGAGAAGCAGCAGAGCTCGAAGAGCGGCCACAAGAAACAGAAAAAC
 AAGGACAGGGAGTATTACGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG233034 representing NM_001272020
 Red=Cloning site Green=Tags(s)

MHLRIHARRSPRRPAWTLGIWFLFWGCIWSSVWSSSNVASSSTSSSPGSHSQHEHHFHGSKHHSVPIS
 IYRSPVSLRGGHAGATYIFGKSGGLILYWPANDRPSTRSDRLAVGFSTTVKDGILVRIDSAPGLGDFLQ
 LHIEQGIQVVFNIGTVDISIKEERTPVNDGKYHVVRFRNNGNATLQVDNWPVNEHYPTGRQLTIFNTQ
 AQIAIGGKDKGRLLFQQLSGLYYDGLKVLNMAAENPNINIKINGSVRLVGEVPSILGTTQTTSMPEMSTT
 VMETTTTMTTTRKNRSTASIQPTSDDLVSSAECSSDDEDFVECEPSTGGELVIPLLVEDPLATPPIAT
 RAPSITLPPFRLLTIIETTKDLSMTSEAGLPCLSDQSDGDDGLVISGYSGSETFDSNLPPTDDE
 DFYTTFSLVTDKSLSTSIFEGGYKAHAPKWEKDFRPNKVSETSRTTTTLSPELIRFTASSSSGMVPKL
 PAGKMNNRDLKPQPDIVLLPLPTAYELDSTKLKSPITSPMFRNVPTANPTEPGIRRVPGASEVIRESS
 TTGMVVGIVAAAAALCILLIYAMYKYRNRDEGSYQVDETRNYISNSAQSNGLMKEKQSSKSGHKKQKN
 KDREYVV

TRTRPLE – GFP Tag – V

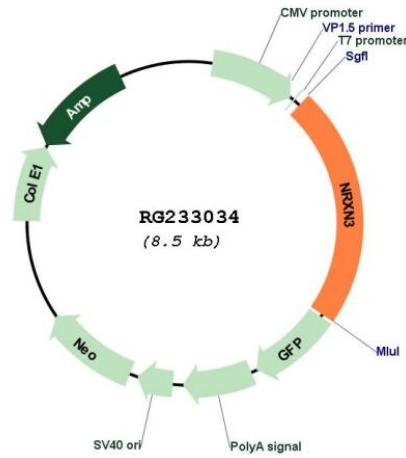
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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:	<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:	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)
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>