

Product datasheet for **MG219440**

Nrxn3 (NM_172544) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrxn3 (NM_172544) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nrxn3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219440 representing NM_172544 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCTCAGATGACTTCTTCTATGTTGGTGGGAAGCCCAAGTACCGCAGACTTGCCAGGTTACCTG
TGAGCAACAACCTCATGGGCTGCCTTAAAGAGGTTGTTTATAAGAATAATGACATCCGTCTAGAGCTGTC
TCGCTTGGCCCGGATTGGAGACACCAAGATGAAAATCTATGGTGAAGTTGTGTTCAAGTGTGAGAACGTG
GCCACACTGGATCCCATCAACTTTGAGACCCAGAGGCTTACATCAGCTTGCCCAAGTGGAAACACCAAAC
GTATGGGCTCCATTTCTTTGACTTTCGCACCACTGAGCCCAACGGCCTGATTCTCTTCACTCACGGGAA
GCCTCAAGAAAGGAAAGATGTCCGGAGCCAAAAGAACACAAAAGTTGACTTCTTTGCTGTGGAACCTCTT
GATGGCAACCTGTATTTGCTGCTTGACATGGGCTCTGGCACCATCAAAGTGAAGGCCACTCAGAAGAAGG
CCAATGATGGGAATGGTACCACGTGGATATTCAGCGTGATGGCAGATCAGGTACCATATCTGTGAACAG
CAGGCGCACGCCATTCACCGCCAGTGGGAGAGTGAATTTCTCGACCTGGAGGGGACATGTATCTGGGC
GGGCTGCCAGAGAACCGAGCTGGCCTCATCTCCACCGAGCTCTGGACCGCCATGCTCAACTACGGTT
ACGTGGGCTGCATCCGCGACCTGTTTCATCGATGGGCGCAGCAAGAACATCCGGCAGCTGGCGGAGATGCA
GAACGCAGCAGGCGTCAAGTCTCCTGTTACGCATGAGCGCCAAGCAGTGTGACAGCTACCCCTGCAAG
ACAACCGGTTGTCAAGGACGGCTGGAACCGCTTCATCTGCGACTGCACTGGCACCGGCTACTGGGGGA
GAACCTGCGAAAGAGAGGCATCTATCCTGAGCTATGACGGCAGCATGTACATGAAGGTATCATGCCCAT
GGTGATGCACACGGAGGAGAGGATGTGTCCTTCCGCTTCATGTACAGCGAGCCTATGGGCTACTGGTA
GCCACAACCTCCAGGGATTCTGCAGATACACTGCGTCTAGAGTTGGATGGTGGGCGTGTCAAAGCTCATGG
TTAACTTAGACTGTATCAGGATAAACTGTAACCTCAGCAAAGGACCTGAGACCCTGTATGCAGGGCAGAA
GCTCAATGACAATGAGTGGCACACCGTCCGGGTAGTGGGAGAGGAAAAAGCCTTAAGCTAACAGTGGAT
GATGATGTGGCTGAGGGGACAAATGGTGGGCGACCACCCCGCCTGGAATTCACAATATTGAACTGGTA
TCATGACTGAGAAGCGTTACATCTCTGTGGTCCCCTCCAGTTTCATTGGCCATCTACAGAGCCTCATGTT
CAATGGCTTACTGTACATTGATTTGTGCAAAAATGGCGACATCGACTACTGTGAAGCTGAGGCTCGCTTT
GGACTGAGAAACATCATCGCCGACCCTGTCACTTTTAAGACCAAGAGCAGCTACCTGACCCTCGCCACCC
TACAGGCTTACACCTCCATGCACCTCTTCTCCAGTTCAAGACCACTTACAGCTGATGGCTTCATTCTCT



[View online »](#)

CAATAGCGGAGATGGCAATGATTTTATTGCAGTTGAGCTGGTCAAGGGGTACATACACTATGTGTTTGT
 CTCGGCAATGGTCCCAATGTGATCAAAGGCAACAGTGACCCGCCCTGAATGACAACAGTGGCACAACG
 TGGTCATCACCAGGGACAGCAGTAACACCCACAGTCTGAAGGTGGACCAAGGTAGTCACTCAGGTCAT
 CAATGGTGCCAAAAATCTGGATTGAAAGGTGACCTCTATATGGCTGGCTTAGCCAGGGCATGTACAGC
 AACCTTCCAAGCTTGTGGCCTCCAGGGATGGATTTACAGGGTGCCTGGCCTCTGTGGACTTGAATGGAC
 GCCTGCCTGATCTCATCAACGATGCTCTCCACAGGAGTGGACAGATCGAGCGAGGCTGTGAAGTTGCGTT
 GACCAAGCTGACCTGCAAGGACCCAGTACAACCTGTCCAGGAGGATTCATGCGCCAACACAGGGAGTTTGC
 ATGCAGCAGTGGGAAGGTTTACCTGTGACTGCTCCATGACATCATATTCTGAAAACAGTGAATGACC
 CTGGTGCAACATACATCTTTGGGAAAAGCGGTGGCCTCATCCTCTATACCTGGCCAGCAAATGACAGACC
 CAGCACACGCTCTGACCGTCTCGCCGTGGGCTTCAGCACTACTGTGAAGGATGGTATCTTAGTACGCATT
 GACAGCGCCCCTGGACTTGGCGACTTCTCCAGCTTACATAGAACAAGGGAAAAATTGGAGTTGTCTTCA
 ATATTGGCACAGTTGACATCTCCATCAAAGAAGAGAGAACTCCTGTCAATGATGGCAAATACCACGTTGT
 GCGCTTACCAGGAATGGGGAAATGCTACACTCAGGTGGACAACCTGGCCAGTGAATGAGCACTATCCT
 ACAGGCAACACTGATAATGAACGCCTCAAATGGTAAAACAGAAAATCCCCTTCAAATATAACCGGCCCCG
 TAGAGGAGTGGCTGCAGGAAAAAGCCGGCAGCTAACCATCTTCAACACCCAGGCGCAAATAGCCATCGG
 AGGAAAGGACAAAAGGACGTCTCTTCCAAGTCAACTCTCTGGGCTCTATTATGATGGTTTGAAAGTACTG
 AACATGGCAGCTGAGAACAACCCTAATATTAATAATCAATGGAAGTGTCCGGCTAGTGGGAGAAGTCCCAT
 CAGTCTCAGGAACAACACAGACAACGTCCATGCCACCTGAAATGTCTACCACCGTCATGGAAACCACCAC
 CACCATGGCTACGACCACCACCCGAAAGAACCGCTCTACAGCCAGCATTAGCCACGTCAGATGATCTT
 GTTTCATCTGCTGAATGTTCAAGTGATGATGAAGACTTGTGCAATGTGAACCAAGTACAGCAAACCCCA
 CGGAGCCAGGAATCAGACGGGTCCGGGGCCCTCAGAGGTGATCCGGGAGTCCAGCAGTACAACAGGGAT
 GGTGCTCGCATTGTGGCTGCTGCCGCCCTCTGCATCTTGATCCTCCTGTACGCCATGTACAAGTACAGG
 AACAGGGACGAGGGTCTATCAAGTGGACGAGACGAGGAACACTACATCAGCAACTCGGCCAGAGCAACG
 GCACGCTCATGAAGGAGAAGCAAGCCAGCTCCAAGAGCGGCCATAGAACAAGAAAAACAAGGACAAGGA
 GTATTATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219440 representing NM_172544
 Red=Cloning site Green=Tags(s)

MLGSDDFVYVGGSPSTADLPGSPVSNFMGCLKEVYKNNDIRLEL SRLARIGDTKMKIYGEVVFKECEN
 ATLDPIINFETPEAYISLPKWNTRKMGSI SFDRTTEPNGLILFTHGKPQERKDVRSQKNTKVDFFAVELL
 DGNLYLLLDMSGTIKVKATQKKANDGEWYHVDIQRDGRSGTISVNSRRTPFASGESEILDLEGDMYLG
 GLPENRAGLILPTELWTAMLNYGVGCI RDLFIDGRSKNIRQLAEMQNAAGVKSSCSRMSAKQCDSYPCK
 NNAVCKDGWNRFCDCGTGYWGRTCEREASILSYDGSMMYKVI MPVMHTEAEDVSFRFMSQRAYLLV
 ATTSRDSADTLRLELDGGRVKLMVNLDCIRINCNSKGPETLYAGQKLNDEWHTVRVRRGKSLKLTVD
 DDVAEGTMVGDHTRLEFHNIETGIMTEKRYISVVPSSF IGHQLSLMFNGLLYIDLCKNGDIDYCELKARF
 GLRNIIADPVTFKTKSSYLTLATLQAYTSMHLFFQFKTTSADGFI LFNSGDGNDFIAVELVKGYIHYVFD
 LGNGPNVIKGNDRPLNDNQWHNVVITRDSNTHSLKVDTKVVTQVINGAKNLDLKGDL YMAGLAQGMYS
 NLPKLVASRDGFQGLASVDLNGRLPDLINDALHRSGQIERGCEVALTKADLQGPSTTCQEDSCANQGVC
 MQQWEGFTCDCSMTSYSGNQCNDPGATYIFGKSGGLILYTPANDRPSTRSDRLAVGFSTTVKDGILVRI
 DSAPGLGDFLQLHIEQKIGVVFNI GTVDISIKEERTPVNDGKYHVVRFRTRNGGNATLQVDNWPVNEHYP
 TGNTDNERLQMVKQKIPFKYNRPVEEWLQEKGRQLTIFNTQAQIAIGGKDKGRLFQGLSGLYYDGLKVL
 NMAAENPNIKINGSVRLVGEVPSVSGTTQTSMPPPEMSTVME TTTTMTTTTRKNRSTASIQPTSDDL
 VSSAECSDDDEFVECEPSTANPTEPGIRRVPGASEVIRESSSTTGMVVGIVAAAAALCIL ILLYAMYKYR
 NRDEGSYQVDETRNYISNSAQSNGLMKEKQASSKSGHKKQKNKDKKEYY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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_172544.3</u> , <u>NP_766132.2</u>
RefSeq Size:	6529 bp
RefSeq ORF:	3303 bp
Locus ID:	18191
UniProt ID:	<u>Q6P9K9</u>
Cytogenetics:	12 42.94 cM
Gene Summary:	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 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. [provided by RefSeq, Dec 2012]