

Product datasheet for **MG208922**

Nepro (NM_145972) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nepro (NM_145972) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nepro
Synonyms:	Nepro
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208922 representing NM_145972
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCTGCGGTGCGGCCGGGTGCGGAGCCGTGGAACCGCGTGAGGATCCCCAGCGGGGAAGTGC
 GCACGCTGACCGTGCGGGACCCAGCGCCACCCTGGATATCTGCACTGCAGCTGTCACTAAAGGGTGCCA
 CCTTGTACACAGTCACTCAAGAGCCAGACCTTGATGCGGAAGTAGATGTGTTATGCTCAGTTCTCTAC
 AGCAATCACAAACAGGTTGGGCCACCACAAGCCCCATTTGGCCCTCAGACAGGTAGAACAGTGCTTAAAGC
 GTTTGAAACATATGAATTTGGAGGGCTCAATTGAAGACCTGTCACAGTTGTTGTCTGCCAATGCAACTCA
 GCCTGGAGCTACAGAAAACCGCGTCGTCCCAGCCAGCCGGTGGTGGAGGTGGTGTGATGAAGTTTTG
 GGAGGCTGCAAGTTGTTACTGCGCTTGTGGACTGCTGCTGCAAGGCATTTCTGTTGACTGTGAAGCACT
 TAGGGCTAAAGGAATTCATTATTTGAACCTTGTGATGGTTGGACTGGTGGCAGGCTATGGTTCTCCA
 TAAAGGACTTTTGAGAAGGCTCATTTCCTTATATGAGCCATTACTCAGCTTGCCTCAGGAGATCTCCAGC
 ATTCATCCCATGCCTTACTTCAAAGATTTTGCCTTTCCCTCTGACATCACTGACTTTCTAGGCCCTCTT
 ACCTTGAAGTGTTCAAGTAAAAACACCTGCGGCTTCTGCTACTAAAGGAGTAACAAAGTTGCTAAATAA
 ACTGTTTTTAATGAGAGAGCAGCTACCAAAGATGAATGAAGACACTTTAGATAGACTTTCCAAACCATCT
 GAACAAATGACAAGCAATCCACAGAGCACTGTGGACCTGGGCCAGCCAGTAAAGCCTGTAAAGAGGACCA
 GAAAAGAAAAGCCATTGGGATTTGACCTTCGGGCTTTTGCACAAGACTTGGAAACAAAGCGACTCAGGA
 GACCAACCGTGACTTTAAATATTTCTCAGTCCAACTGAAGACAACCAAACCTCCCTCTCAGCAACTGAGA
 ACTCACTGGGCTAACGATACTGTGCAAGAATCCGAAAGACCAAGACGTTCCGCCAACTTTCTGAAGAAA
 TTGAAATGGCAATTGTGGTCCCGGAGCAAAAAGCTCAAGACTCAGGCTACCTTTCTGGGCAACAAA
 TCTTAAGAGTAATAGGTTTAGACATGTGGAATCTCAAGGCTATAGTTTGACAAAGAAGCTCCAGTGCATG
 AAAACATCTCTGCAACTGCCTTCTCCGAGGCTCTCGTACCAGCACTTCAAGAGCATCTCCAGACAAA
 GAAGATCAAAGTATAAGTTTTATCAAGACAAAGGAAACCGCAGAGAAAGTTACAGTCAACTCTTTTAA
 GGAAACCCAGCAGGTCCTGAAGGGACTCTGAAGAACACTAGGGACAGCAGTGTAAAGAGGAGATGCTCT
 GGGACAGTTCAGAGGTCAGATGTCTGTCTAATGGAAAGCAGGCTTGGAGAAAACCTGCAAAAGCCTGACC
 TAAAAACAAAGGTGGTGGTCCACGGGAATCTTACAGGGGGCAGTAGAAATGAATCTGGCTTTCAGGCGAA
 GACACAGATGCACACACAATGCGCCAGACACTGCTAAAGAGGAGATGACATTGATGATTTTTTGTCT
 TTGATGGGAGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208922 representing NM_145972
 Red=Cloning site Green=Tags(s)

MAAAVRPGAEPWNRVRIQAGNCSTLTVRDP SATLDICTAAVTKGCHLVTQSLKSQTLDAEVDVLCVLY
 SNHNRLGHHKPHLALRQVEQCLKRLKHMNLEGSIEDLSQLLSANATQPGATENRVVPSQPVEVVLKVL
 GGCKLLRLLDCCCKAFLLTVKHLGLKEFIILNLVMVGLVSRLWVHKGLLRRLISLYEPLLSLRQEISS
 IHPMPYFKDFAFPSDITDFLGPSYLEVFKVKTAAASATKGVTKLLNKLFLMREQLPKMNEDTLDRLSKPS
 EQMTPSNPQSTVDLQGPVKACKRTRKEKPLGFDLRAFCTRLGNKATQETNRDFKYSQSKLTKLPSQQLR
 THWANDTVQIRKTKTFAQLSEEIEMAIWVSRSKLKTQATFLGNKLLKSNRFRHVESQGYSLTKKLQCM
 KTSLECNLLRGSRTSTSEHPPRQRRSKYKVL SRQRKPQRKLQSTLLKETQQVPEGLKNTRDSSAKRRCS
 GTVQRSDVCPNGKQVLRKLA KPDLKTKVVVHG NLTGGSRNESGFQAKTQMHTHNAPDTAKEADDIDDI
 FALMGV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_145972.4 , NP_666084.1
RefSeq Size:	2866 bp
RefSeq ORF:	1695 bp
Locus ID:	212547
UniProt ID:	Q8R2U2
Cytogenetics:	16 B4
Gene Summary:	May play a role in cortex development as part of the Notch signaling pathway. Downstream of Notch may repress the expression of proneural genes and inhibit neuronal differentiation thereby maintaining neural progenitors (PubMed:19906856). May also play a role in preimplantation embryo development (PubMed:26178919).[UniProtKB/Swiss-Prot Function]