

Product datasheet for **MR209192**

Enc1 (NM_007930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enc1 (NM_007930) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enc1
Synonyms:	Nrpb; PIG10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209192 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGTCAGTGTGCATGAGAACCAGTCCAGGGCCAGCAGTGGCTCCATCAACATCTACCTGTTTC
 ATAAGTCCTCCTACGCGGACAGCGTTCTCACTCACCTGAACCTTCTGCGTCAGCAGCGGCTTTCACAGA
 TGTCTTCTCCATGCGGGAAACAGGACCTTCCCTTGCCACCGGGCAGTGTGGCTGCGTGACGCCGTAC
 TTCGAAGCCATGTTCAAGTGGCTGAAAGAGAGCCAGGACAGTGAAGTGAACCTCGACAATCCATCC
 ACCCAGAAGTCTTAGAGCTGTTCTAGACTACGCATACTCCTCCCGGTTCATTATCAATGAAGAAAATGC
 TGAGTCGCTCCTGGAGGCTGGTACATGCTGGAGTTCAGGACATCAGAGATGCGTGTGCAGAAATTTCTA
 GAGAAGAACCTGCATCCACCAACTGCCTGGGTATGCTGCTGTTGTCTGATGCCACCAGTGCACCAAGC
 TGTATGAACTCTCCTGGAGAATGTCTCAGCAACTTCCAAACCATTGGAAGAACGAAGATTTCTCCA
 GTTGCCCAAGGACATGGTTGTGCAGCTGCTGTCCAGTGAAGAATGGAGACGGAAGACGAAAGGCTGGT
 TATGAGTCTGCGATGAACTGGATCAGCTATGACCTGAAGAAGCGCTACTGTTACCTCCCGGAACTGTTGC
 AGACAGTGAAGGCTGGCCCTCCTTCTGCCATCTATCTCATGGAGAACGTGGCAATGGAAGAACTCATCAC
 CAAGCAGAGAAAGAGTAAGGAGATCGTGGAAAGAGGCCATCAGGTGCAAACTAAAAATCTTACAGAATGAC
 GGCGTGGTACCAGTCTCTGTGCTCGTCTCGGAAAATGGCCATGCCCTGTTCTCCTGGGAGGGCAGA
 CTTTATGTGTGACAACTGACTTGGTAGACCAGAAGGCTAAAGAAATCATTCCCAAGGCTGACATTCC
 CAGCCCAGGAAAGAGTTACGCGCATGTGCAATTGGCTGCAAAGTATATATTACTGGGGGGCGGGATCA
 GAGAACGGAGTCTCAAAGATGTCTGGGTTTACGATACCCTGCATGAGGAGTGGTCCAAGGCTGCCCCCA
 TGCTGGTGGCCAGGTTTGGCCATGGATCAGTCACTGAACTGAAGCACTGCCTCTATGTGGTGGTGGGCA
 AGCTGCAACTGGCTGCCTCCAGCCTCCCTCGGTCTCCCTAAAGCAAGTGAACAGTATGACCCACACA
 ACCAACAAATGGACCATGGTAGCCCACTCCGCGAAGGTGTCAGCAATGCTGCTGTAGTGTGCTGCAAAAC
 TTAAGCTGTTTGTCTTGGGGGTACCAGCGTGAGCCACGACAAGCTGCCCAAGGTTCAAGTGTACGATCA
 ATGCGAGAACAGATGGTCAAGTGGCAGCCACCTGTCCCAAGCCTGGCGTTACACAGCCGAGCTGTGCTG
 GGAAACCAGATTTTTATCATGGTGGAGATACAGAGTTCTCTGCCTGCTCCGTTACAAATTCATAGTG
 AGACTTACCAGTGGACCAAGTGGGAGATGTGACAGCCAAGCGCATGAGCTGCCACGCCGTGGCGTCCGG
 GAACAAGCTTTACGTAGTTGGAGGTTACTCGGCATTACGCGCTGCAAGACTTTGGACTGTTACGACCCA
 ACTTTAGATGTGTGGAACAGCATAACCACTGTTCCCTACTCTCTGATCCCTACTGCATTCGTGACACCT
 GGAACACCTGCCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209192 protein sequence
 Red=Cloning site Green=Tags(s)

MSVSVHENRKSRASSGSINIYLFHKSSYADSVLTHLNLLRQQLFTDVLHAGNRTFPCHRAVLAACSR
 FEAMFSGGLKESQDSEVNFNSIHPEVLELLLDYAYSSRVIINEENAESLLEAGDMLEFQDIRDACAFL
 EKNLHPTNCLGMLLLSDAHQCTKLYELSWRMCLSNFQIRKNEFLQLPQDMVVQLLSSELETERL
 YESAMNWSYDLKKRYCYLPELLQTVRLALLPAIYLMENVAMEELITKQRKSKEIVEEAI RCKLKLQND
 GVVTSLCARPRKTGHAFLLGGQTFMCDKLYLVDQKAKEIIPKADIPSPRKEFSACAI GCKVYITGGRS
 ENGVS KDVVVYDTLHEEWSKAAPMLVARFGHGS AELKHCLYVVGHTAATGCLPASPSVSLKQVEQYDPT
 TNKWTMVAPLREGVSNAAVVS AKLKF AFGGTSVSHDKLPKVQCYDQCENRWSVPATCPQPWRYTAAAVL
 GNQIFIMGGDTEFSACSAYKFNSEYQWTKVGDVTAKRMSCHAVASGNKLYVVG YFGIQRCKTLD CYDP
 TLDVWNSITTVPYSLIPTAFVSTWKHLPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_007930

ORF Size: 1770 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_007930.1](#), [NM_007930.2](#), [NM_007930.3](#), [NM_007930.4](#), [NP_031956.3](#)

RefSeq Size: 4752 bp

RefSeq ORF: 1770 bp

Locus ID: 13803

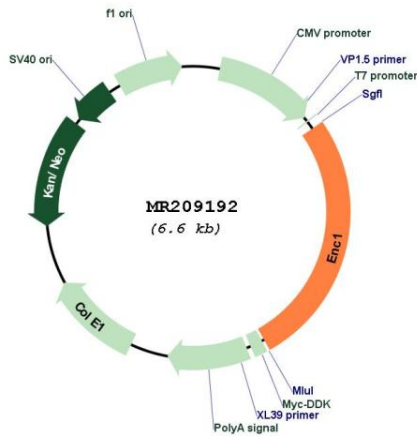
UniProt ID: [O35709](#)

Cytogenetics: 13 D1

MW: 66.1 kDa

Gene Summary: Actin-binding protein involved in the regulation of neuronal process formation and in differentiation of neural crest cells. Down-regulates transcription factor NF2L2/NRF2 by decreasing the rate of protein synthesis and not via a ubiquitin-mediated proteasomal degradation mechanism (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209192