

## Product datasheet for **MR209184**

### 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:**

>MR209184 representing NM\_007930  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGTCAGTGTGCATGAGAACCAGTCCAGGGCCAGCAGTGGCTCCATCAACATCTACCTGTTTC  
 ATAAGTCCTCCTACGCGGACAGCGTTCTCACTCACCTGAACCTTCTGCGTCAGCAGCGGCTTTCACAGA  
 TGTCTTCTCCATGCGGGAAACAGGACCTTCCCTTGCCACCGGGCAGTGTGGCTGCGTGACGCCGTAC  
 TTCGAAGCCATGTTCAAGTGGCTGAAAGAGAGCCAGGACAGTGAAGTGAACCTCGACAATTCATCC  
 ACCCAGAAGTCTTAGAGCTGTTCTAGACTACGCATACTCCTCCCGGTTCATTATCAATGAAGAAAATGC  
 TGAGTCGCTCCTGGAGGCTGGTACATGCTGGAGTTCAGGACATCAGAGATGCGTGTGCAGAAATTTCTA  
 GAGAAGAACCATGCCACCAACTGCCTGGGTATGCTGCTGTTGTCTGATGCCACCAGTGCACCAAGC  
 TGTACGAATCTCCTGGAGAATGTCTCAGCAACTTCAAACCATTGGAAGAACAAGATTTCTCCCA  
 GTTGCCCAAGGACATGGTTGTGCAGCTGCTGTCCAGTGAAGAATGGAGACGGAAGACGAAAGGCTGGT  
 TATGAGTCTGCGATGAATGGATCAGCTATGACCTGAAGAAGCGCTACTGTTACCTCCCGGAATGTTGC  
 AGACAGTGAAGGCTGGCCCTCCTTCTGCCATCTATCTCATGGAGAACGTGGCGATGGAAGAACTCATCAC  
 CAAGCAGAGAAAGAGTAAGGAGATCGTGGAAAGAGGCCATCAGGTGCAAACTAAAAATCTTACAGAATGAC  
 GGCGTGGTACCAGTCTCTGTGCTCGTCTCGGAAAATGGCCATGCCCTGTTCTCCTGGGAGGGCAGA  
 CTTTATGTGTGACAACTGACTTGGTAGACCAGAAGGCTAAAGAAATCATTCCCAAGGCTGACATTCC  
 CAGCCCGAGGAAAGAGTTCAGCGCATGTGCAATTGGCTGCAAAGTATATATTACTGGGGGGCGGGATCA  
 GAGAACGGAGTCTCAAAGATGTCTGGGTTTACGATACCCTGCATGAGGAGTGGTCCAAGGCTGCCCCCA  
 TGCTGGTGGCCAGGTTTGGCCATGGATCTGTGAACCTGAAGCACTGCCTCTATGTAGTGGTGGGCGAC  
 AGCTGCAACTGGCTGCCTCCAGCCTCCCTCGGTCTCCCTAAAGCAAGTAGAACAGTATGACCCACACA  
 ACCAACAAATGGACCATGGTAGCCCACTCCGCGAAGGTGTCAGCAATGCTGCTGTAGTGAAGTGCACAAAC  
 TTAAGCTGTTTGTCTTGGGGGTACCAGTGTGAGCCACGACAAGCTGCCCAAGGTTCAAGTGTACGATCA  
 ATGCGAGAACAGATGGTCAAGTGGCCACCTGTCCCAAGGTTACACAGCCGAGCTGTGCTG  
 GGAAACCAGATTTTTATCATGGTGGAGATACAGAGTCTCTGCCTGCTCCGTTACAAATTCATAGT  
 AGACTTACCAGTGGACCAAGTGGGAGATGTGACAGCCAAAGCGCATGAGCTGCCACGCCGTGGCGTCCGG  
 GAACAAGCTTTACGTAGTTGGAGGTTACTCGGCATTACGCGCTGCAAGACTTTGGACTGTTACGACCCA  
 ACTTTAGATGTGTGGAACAGCATAACCACTGTTCCCTACTCTCTGATCCCTACTGCATTCGTCAGCACCT  
 GGAACACCTGCCTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209184 representing NM\_007930  
 Red=Cloning site Green=Tags(s)

MSVSVHENRKSRASSGSINIYLFHKSSYADSVLTHLNLLRQQLFTDVLHAGNRTFPCHRAVLAACSR  
 FEAMFSGGLKESQDSEVNFNSIHPEVLELLLDYAYSSRVIINEENAESLLEAGDMLEFQDIRDACAFL  
 EKNLHPTNCLGMLLLSDAHQCTKLYELSWRMCLSNFQIRKNEFLQLPQDMVVQLLSSELETERL  
 YESAMNWSYDLKKRYCYLPELLQTVRLALLPAIYLMENVAMEELITKQRKSKEIVEEAIRCKLKILQND  
 GVVTSLCARPRKTGHAFLLGGQTFMCDKLYLVDQKAKEIIPKADIPSPRKEFSACAIKGVYITGGRS  
 ENGVSKDVVWYDTLHEEWSKAAPMLVARFGHGSSELKHCLYVVGHTAATGCLPASPSVSLKQVEQYDPT  
 TNKWTMVAPLREGVSNAAVVSALKLAFGGTSVSHDKLPKVQCYDQCENRWSVPATCPQPWRYTAAAVL  
 GNQIFIMGGDTEFSACSAYKFNSETYQWTKVGDVTAKRMSCHAVASGNKLYVVGYYFGIQRCKTLDYDPT  
 TLDVWNSITTVPYSLIPTAFVSTWKHLPS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007930

**ORF Size:** 1767 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\\_007930.4](#), [NP\\_031956.3](#)
**RefSeq Size:** 4752 bp

**RefSeq ORF:** 1770 bp

**Locus ID:** 13803

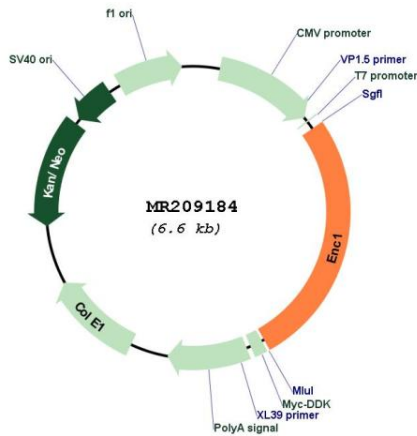
**UniProt ID:** [O35709](#)

**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 MR209184