

## Product datasheet for SC310700

### Neurabin 1 (PPP1R9A) (NM\_017650) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurabin 1 (PPP1R9A) (NM_017650) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neurabin 1
Synonyms:	Neurabin-I; NRB1; NRBI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310700 representing NM_017650. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
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CTAGAGAAAGATGAGGATGGTCTTGGTATAAGTATTATTGGAATGGGTGTTGGAGCAGATGCTGGACTT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_017650
- Insert Size:** 3297 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
- 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\\_017650.2](#)

**RefSeq Size:** 9705 bp

**RefSeq ORF:** 3297 bp

**Locus ID:** 55607

**UniProt ID:** [Q9ULJ8](#)

**Cytogenetics:** 7q21.3

**Protein Families:** Druggable Genome

**MW:** 123.3 kDa

**Gene Summary:** This gene is imprinted, and located in a cluster of imprinted genes on chromosome 7q12. This gene is transcribed in both neuronal and multiple embryonic tissues, and it is maternally expressed mainly in embryonic skeletal muscle tissues and biallelically expressed in other embryonic tissues. The protein encoded by this gene includes a PDZ domain and a sterile alpha motif (SAM). It is a regulatory subunit of protein phosphatase I, and controls actin cytoskeleton reorganization. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]  
Transcript Variant: This variant (4) differs in several places in the CDS, as compared to variant 1. The reading frame is not changed, but the resulting isoform (4) is shorter. It lacks two internal segments but has an additional segment in the C-terminal region, as compared to isoform 1.