

## Product datasheet for RC212983

### NEURL2 (NM\_080749) Human Tagged ORF Clone

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | NEURL2 (NM_080749) Human Tagged ORF Clone                         |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | NEURL2                                                            |
| Synonyms:                 | C20orf163; OZZ; OZZ-E3                                            |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >RC212983 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCTGCCTCCGAGCCGTGGATTCTGGGTGCACTCTGGGGACTCGAGCGCCCGGAGCCCCCTCCCA  
 CCCGCTTCCATCGGGTGACGGTGCCAACATCCGCGTGGACCCCTCTGGGACGCGGGCCACACGCGTGGA  
 GAGCTTCGCCACGGCGTGTGCTTCAGCCGCGAGCCGCTGGCCCCGGGCCAGGTCTTCTGGTCGAGATC  
 GAGGAGAAAGAGCTGGGCTGGTGCAGACATCTGCGTCTCGGTCTGACCGCGCTGGACCCCGCCAGTCTGG  
 CCCCCGTTCCCGAGTTTTCTCTGCCGATCTGGTCAACCTGGGCCACACCTGGGTCTTCGCCATCACGCG  
 CCACCACAACCGCGTGCCCCGGGAGGGCCGCCGAGGCGGAGGCGAGCGCCCCAGCCGACCTCCAACC  
 CTCTCTCGTGAACCATATCTGCGCATTGAGCAGTTTCGATTCCCGGGACCGCCTGGTGGGCCGCGAGCC  
 GGCCAGGGCTCTACAGCCATCTCTTGACCACTCTATGAGCTGAACGTGCTGCCTCCGACCGCGCGCCG  
 TAGCCGCTGGGTGTCTCTTTTGCCCGCGCCCCGATGGCACGGCCGACATGCACATCATCAACGGC  
 GAGGACATGGGCCGAGCGCCCGGGGACTGCCAGCTGCGCAGCCCTCTACGCGGTGGTGGACGTGTTTG  
 CTTCCACAAAGAGCGTGCCTTGTCAGCTCGAGTATGGCTTGCCATCCCTGCAGACTCTGTGCCGCT  
 AGTGATACAAAGGAGCATGGTGCACCGCTGGCCATTGATGGGTCCACCTGCCAAAGAACTTAAGGAT  
 TTCTGCAAGTATGAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA


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**Protein Sequence:** >RC212983 protein sequence  
 Red=Cloning site Green=Tags(s)

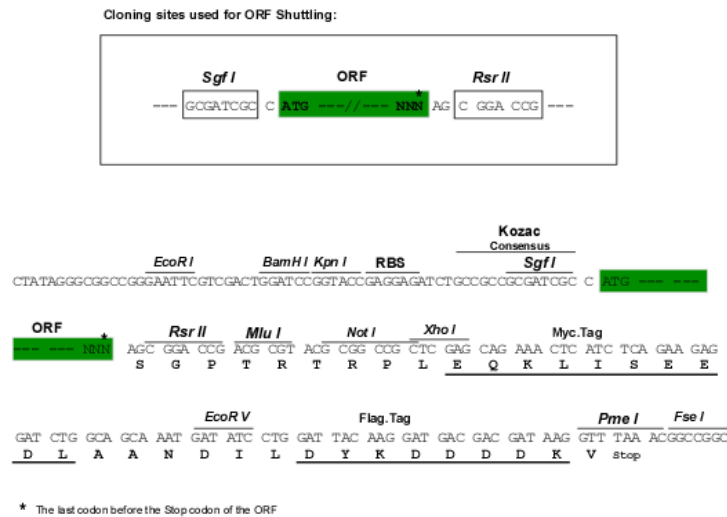
MAAASEPVDSGALWGLERPEPPPTRFHRVHGANIRVDPSTGTRATRVESFAHGVCFSTREPLAPGQVFLVEI  
 EEKELGWCGLRLGLTALDPASLAPVPEFSLPDLVNLGHTWVFAITRHHNRVPREGPEAEAAAPSRPPT  
 LLVEPYLRIEQFRIPDRDLVGRSRPGLYSHLLDQLYELNVLPTARRSRLGVLCPRPDGTADMIIING  
 EDMGPSARGLPAAQPLYAVVDVFASTKSVRLVQLEYGLPSLQTLCLRLVIQSRMVHRLAIDGLHLPKELKD  
 FCKYE

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6616\\_e01.zip](https://cdn.origene.com/chromatograms/mk6616_e01.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_080749

**ORF Size:** 855 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_080749.3](#), [NP\\_542787.1](#)

**RefSeq Size:** 1440 bp

**RefSeq ORF:** 858 bp

**Locus ID:** 140825

**UniProt ID:** [Q9BR09](#)

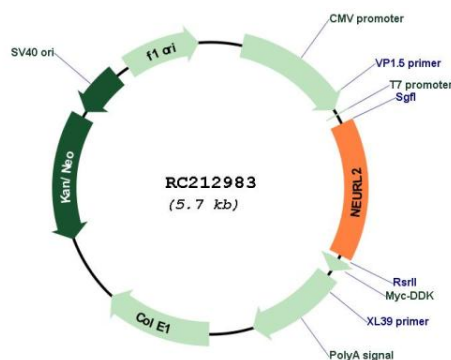
**Cytogenetics:** 20q13.12

**Protein Families:** Druggable Genome

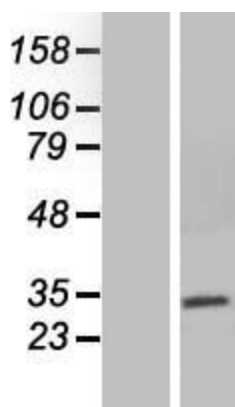
**MW:** 31.7 kDa

**Gene Summary:** This gene encodes a protein that is involved in the regulation of myofibril organization. This protein is likely the adaptor component of the E3 ubiquitin ligase complex in striated muscle, and it regulates the ubiquitin-mediated degradation of beta-catenin during myogenesis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jun 2013]

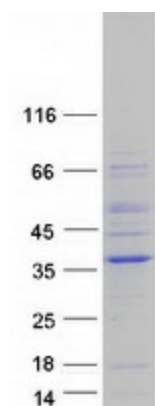
## Product images:



Circular map for RC212983



Western blot validation of overexpression lysate (Cat# [LY409066]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212983 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NEURL2 protein (Cat# [TP312983]). The protein was produced from HEK293T cells transfected with NEURL2 cDNA clone (Cat# RC212983) using MegaTran 2.0 (Cat# [TT210002]).