

## Product datasheet for RC212203

### Agrin (AGRN) (NM\_198576) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Agrin (AGRN) (NM_198576) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agrin
Synonyms:	AGRIN; CMS8; CMSPPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212203 representing NM_198576 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGGCCGGTCCCACCCGGGCCGCTGCGGCCGCTGCTGCCGCTCCTTGTGGTGGCCGCGTGCCTCC  
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**Protein Sequence:** >RC212203 representing NM\_198576  
 Red=Cloning site Green=Tags(s)

MAGRSHPGPLRPLLPLLVAACVLPGAGGTCPERALERREEEANVVL TGTVEEILNVDPVQHTYSCKVVRV  
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 ITLRNL EEVEFCVEDKPGTHFTVPPTPPDACRGM LCGF GAVCEPNAEGPGRASCVCCKSPCPSVAVPVC  
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 RALEPQGLLLYNGNARGKDFLALALLDGRVQLRFDTGSGPAVLTSAVPVEPGQWHRLELSRHWRRTLSV  
 DGETPVLGESPSGTDGLNLD TDLFVGGVPEDQAAVALERTFVGAGLRGCI RLLDVNNQRLELGIGPGAAT  
 RSGVGEGCDHPCLPNPCHGGAPCQNLEAGRFHCQCPPGRVGP TCADEKSPCQPNPCHGAAPCRVLP EGG  
 AQCECPLGREGTFCQTASGDGSGPFLADFN GFSHLELRGLHTFARDLGEKMALEV VFLARGPSGLLLYN  
 GQKTDGKGDVSLALRDRRLEFRYDLGKGA AVIRSREPVTLGAWTRVSLERNRKGALRVGDGPRVLGES  
 PVPHTVLNLKEPLYVGGAPDFSKLARA AAVSSGFDGAIQLVSLGGRQLL TPEHVL RQVDVTSFAGHPCTR  
 ASGHPCLNGASCVPREAAVYVCLCPGGFSGPHCEKGLVEKSAGDVDTLAFDGRTFVEYLN AVTESEKALQS  
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 EDAVTKPELRPCPTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6795\\_h12.zip](https://cdn.origene.com/chromatograms/mk6795_h12.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_198576

**ORF Size:** 6135 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\\_198576.4](#)

**RefSeq Size:** 7319 bp

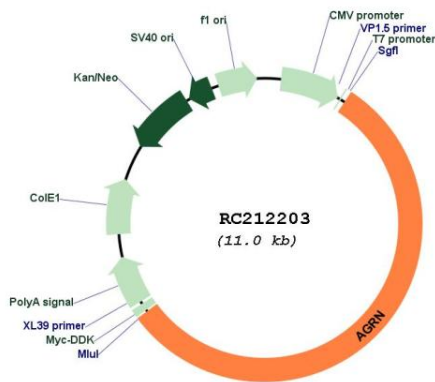
**RefSeq ORF:** 6138 bp

**Locus ID:** 375790

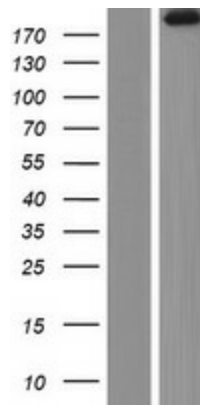
**UniProt ID:** [O00468](#)  
**Cytogenetics:** 1p36.33  
**Protein Pathways:** ECM-receptor interaction  
**MW:** 214.7 kDa

**Gene Summary:** This gene encodes one of several proteins that are critical in the development of the neuromuscular junction (NMJ), as identified in mouse knock-out studies. The encoded protein contains several laminin G, Kazal type serine protease inhibitor, and epidermal growth factor domains. Additional post-translational modifications occur to add glycosaminoglycans and disulfide bonds. In one family with congenital myasthenic syndrome affecting limb-girdle muscles, a mutation in this gene was found. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2015]

### Product images:



Circular map for RC212203



Western blot validation of overexpression lysate (Cat# [LY404830]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212203 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).