

Specifications:

Gene:	mGrin1
Accession:	NP_032195
Insert size:	2830bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

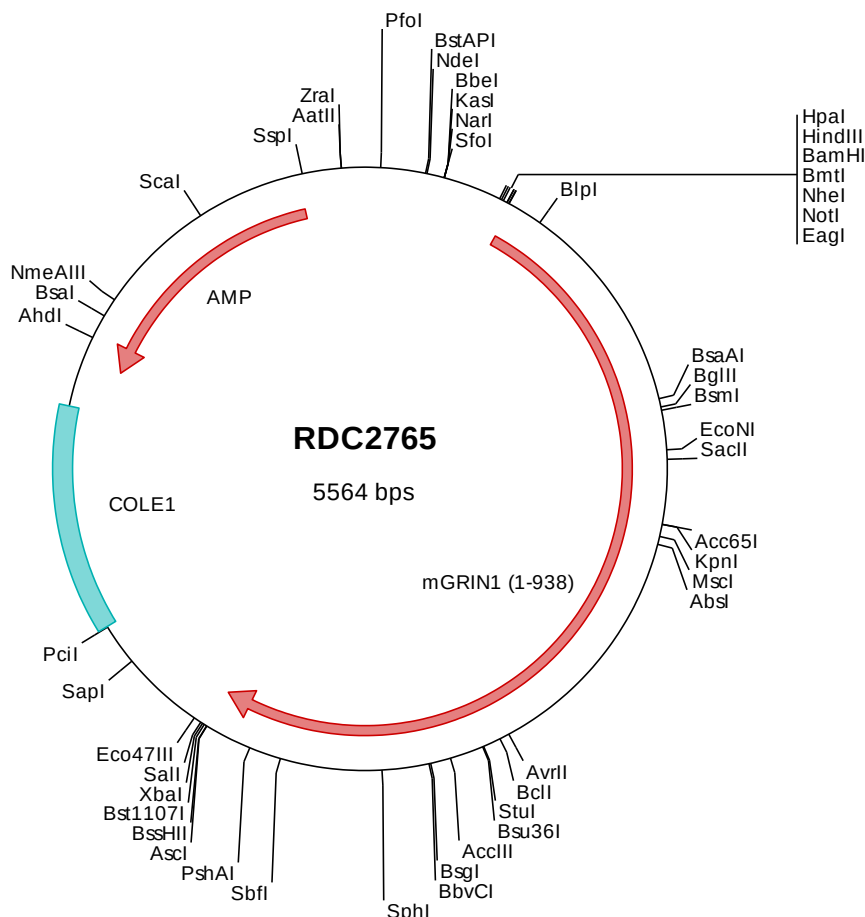
mGRIN1/NMDAR1 cDNA Plasmid

**Grin1 glutamate receptor,
ionotropic, NMDA1 (zeta 1)
[*Mus musculus* (house mouse)]**

Also known as: NR1; GluN1;
Nmdar; NMD-R1; NMDAR1;
M100174; Rgsc174; GluRzeta1;
GluRdelta1

Summary:

GRIN1/GluN1 is a subunit of N-methyl-D-aspartate (NMDA) receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. The ligand-gated channel is permeable to cations including Ca²⁺. GRIN1 binds glycine and is essential for the physical formation of the ion channel. NMDA receptors have a critical role in excitatory synaptic transmission and plasticity in the CNS.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2765 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
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201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgcccagct ggcgaaaagg ggaatgtgtg caaggcgatt aagttgggta agcccgagggt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
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> RDC2765 Translated Insert Sequence

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201  tknvtallme ardllearvii lsaseddaat vyraaamlnm tgsygvwlvq ereisgnarl yadpdgiiglg lingknesah isdavgvvaq avhelleken
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701  tmyrhmekhn yesaaeiaqa vrndklhafi wdsavlefea sqkcdlvttg elffrsrgfi gmrkdsppwk nvsilsilksh engfmedldk twvryqeds
801  rsnapatltf enmagvfmfv aggivagifl ifieiaaykh kdarrkqmg afaavnvwrk nlqdrksgra epdpkkkatf raitstlass fkrrrrskdt
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