

Product datasheet for **RR203008**

Grin2d (NM_022797) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grin2d (NM_022797) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Grin2d
Synonyms: GluN2D
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203008 representing NM_022797
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGATCGC

ATGCGCGCGCCGGTGGCCCCGCGCCCTCGGGCCCCGCTAAGATGCTGCTGCTGCTGGCGTGGCGT
 GCGCCAGCCCGTTCCCGAGGAGGTGCCGGGGCCGGGCGGGTGGCGGGGGCACGGGCGGGCGCGGCC
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TCGATGGCGTCTGGAATGGCATGATTGGTGAGGTGTTCTATCAGCGTGCCGACATGGCCATCGGCTCTCT
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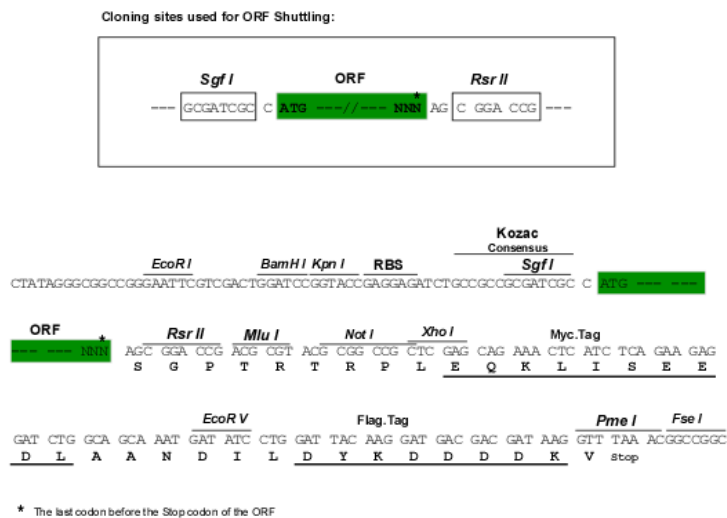
Protein Sequence: >RR203008 representing NM_022797
 Red=Cloning site Green=Tags(s)

MRGAGGPRGPRGPAKMLLLALACASPFPEEVPGPVAVGGGTGGARPLNVALVFSGPAYAAEAARLGPV
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 THRGESLHRYFMNITWDRDYSFNEDGFLVNPVSLVVISLTRDRTWVVGSWEQTLRLKYPLWSRYGRFL
 QPVDQTQLTVATLEERPFVIVEPADPISGTCIRDSVPCRSQNLNRTHSPPDPAPRPEKRCCKGFCIDILK
 RLAHTIGFSYDLYLVTNGKHGKIDGVWNGMIGEVFYQRADMAIGSLTINEERSEIVDFSVPFVETGISV
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 WLLWALVFNSVVENPRGTTSKIMVLVVAFFAVIFLASYTANLAAFMIQEYVDTVSGLSDRKFQRPQE
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 NMAGVFYMLLVAMGLSLLVFAWEHLVYWRLRHCLGPTHMDFLLAFSRGMYSCCSAEAPPAPKPPPPQ
 PLPSPAYPAARPPGPAPFVPRERAAADRWRRAKGTGPPGAAIADGFHRYGPIEPQGLGLEARAAPR
 GAAGRPLSPPTTQPQKPPSYFAIVREQEPTPPAGAFPGFSPAPPAAAAAVGPPLCRLAFEDESP
 PPSRWPRSDPESQPLLGGGAGPSAGAPTAPPPRAAPPCCAYLDLEPSPSDESESLGGASLGGLEP
 WWFADFPPYAERLGGPPGRYWSVDKLGWRAGSWDYLPGRGPAWHCRHCASLELLPPRHLSCSHDGL
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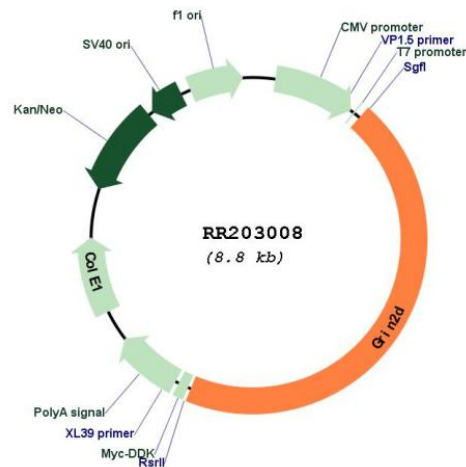
SGPTRRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_022797

ORF Size: 3969 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_022797.1](#), [NP_073634.1](#)

RefSeq Size: 5246 bp

RefSeq ORF: 3972 bp

Locus ID: 24412

UniProt ID: [Q62645](#)

Cytogenetics: 1q22

MW: 143 kDa

Gene Summary: N-methyl-D-aspartate receptor subunit; expressed in mid-brain structures with peak expression at day P7 [RGD, Feb 2006]