

Product datasheet for **RN207182**

Grid2 (NM_024379) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grid2 (NM_024379) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grid2
Synonyms:	GluD2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN207182 representing NM_024379 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGAAGTTTTCCCTTGCTCTTCTTTCTATCCTTCTGGTGGTCTCGAACCTGGGACCTGGCGACCTCCG
ATTCCATCATCCACATCGGAGCAATTTTTGATGAATCTGCTAAAAAGATGATGAAGTATCCGCACAGC
AGTTGGTGACCTCAACCAGAATGAGGAAATCTACAGACTGAGAAAATCACATTTTCAGTGACATTTGTG
GATGGCAACAACCTTTCAAGCTGTTCAAGAAGCATGTGAACCTATGAACCAGGGCATCTTGGCCTTGG
TCAGCTCCATTGGTTGCACATCTGCTGGTCCCTCCAGTCTTTGGCAGACGCCATGCATATCCCTCACCT
CTTCATTACAGCTTCAACAGCTGGGACCCCAAGAAGTGGCTGCGGCCTCACAGGAGCAACAGAAACGAT
GACTATACCTTTTCAGTTCGTCACCTGTCTACTTGAATGAAGTCATCCTAAGAGTAGTCACAGAGTATG
CATGGCAGAAATTTATTATCTTCTATGATAGTGAATATGATATCCGTGGCATAACAGGAATTTTGGACAA
AGTTTCCAGCAGGGAATGGATGTTGCCCTTCAAAGGTGAAAAACAACATCAATAAAATGATCACCAGC
CTCTTTGACACCATGAGGATAGAGGAGTTGAATCGCTATCGAGACACTCTCAGAAGAGCCATCTTGTTA
TGAACCCCGCCACAGCCAAATCCTTATAAGTGAAGTGGTGGAGACTAATCTGGTTGCTTTTGACTGTCA
CTGGATCATCAATGAGGAAATAAATGATGTGGATGTTGAGGAACTTGTGAGAAGTCCATTGGAAGG
TTAACAATTATTCGGCAGACATTTCCAGTCCCCAGAATAAAGTCAGCGCTGTTTCCGTGGCAACCATC
GAATTTCTTCAACACTGTGTGATCCCAAGGATCCCTTCGCACAGAATATGGAGATTTCTAACCTTTACAT
CTATGACACGGTGCTTCTGCTTGCAAACGCCTTTCATAAGAAGCTGCAGGACCGGAAGTGGCACAGCATG
GCGAGCTTGTCTGTATCAGGAAAACTCCAAGCCCTGGCAGGGAGGGCGGTCCATGCTGGAGACCATCA
AGAAGGTGGAGTTAATGGATTGACTGGAGATCTAGAATTTGGAGAAAATGGAGGTAACCCCAATGTCCA
CTTCGAAATCCTTGAACCAACTATGGAGAAGAACTTGGCAGGGGTGTCCTAACTTGGGTGCTGGAAT
CCTGTACAGGTCTGAATGGATCACTGACAGACAAGAACTGGAGAATAACATGCGAGGTGTGGTTCTAC
GCGTGGTGACTGTATTGGAGGAGCCTTTTGAATGGTCTCTGAAAATGTCTTGGGAAAACCGAAGAAATA
CCAGGGCTTCTCCATTGATGTTTAGATGCCCTATCTAACTATCTGGGTTTTAACTATGAAATTTATGTT
GCACCGGACCACAAATATGGAAGCCACAAGAAGATGGGACATGGAATGGACTAGTAGGAGAAGTGTGTT



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TTAAGAGAGCTGACATCGGGATTCAGCTTTAACCATCACTCCAGACCGGGAGAATGTTGTGGATTTTAC
AACACGCTACATGGACTACTCAGTAGGGTCTACTGCGAAGGGCAGAAAAACAGTGGATATGTTTGCC
TGCTTGCACCATTTGATCTATCTGTGGCCTGCATTGCCGGCAGTCCCTTCTGTGGGACTCCTGG
TCTACCTCTTGAAGTGGCTTAATCCCCACGGTTGCAATGGGATCAATGACATCTACTACACTATAA
CTCCATGTGGTTTGTGTACGGGTCTTTGTACAGCAAGGTGGGAAGTACCATACACAACCTTTGGCAACC
CGAATGATGATGGGGCTTGGTGGTATTTGCTCTGATTGTCTCATCTCATCTTATACAGCAAATCTTGCCG
CTTTCCTCACTATCACCCGATTGAGAGCTCCATCCAGTCTCTCAGGATCTGTCCAAGCAAACGGATAT
CCCTTATGGCACAGTCTTGGATTCCGCAGTATATCAGCATGTTTCGCATGAAGGGGCTGAATCCTTTTGG
AGGGACAGCATGTATTCCAGATGTGGAGGATGATCAACCGAAGCAATGGCTCAGAGAACAATGTTCTGG
AGTCCCAAGCAGGCATTCAAAGGTAATAATGGAAACTATGCTTTTGTATGGGATGCAGCTGTGTTGGA
ATATGTGGCCATCAATGACCCCGACTGTTCTTCTACTGTTGGAAATACTGTTGCTGACCGGGGGTAT
GGCATCGCACTGCAGCATGGCAGTCCCTACCGTGTCTTTTCAAAAGGATCCTGGAGCTGCAGCAGA
GTGGCGCATGGACATCCTCAAGCACAATGGTGGCCTAAGAATGGCCAGTGTGACCTGTACTCCTCAGT
AGATGCAAAGCAGAAGGGAGGAGCCCTGGACATCAAGAGTCTGGCAGGCGTGTCTGCATCCTGGCCGG
GGGATTGTACTCTCCTGCCTCATAGCCGTCCTCGAGACATGGTGGAGTGGCGGAAGGGCTCCCGAGTCC
CATCGAAAGAGGATGACAAGGAAATTGACCTGGAGCACCTCCATAGACGTGTAATAAGCTTGTGCACAGA
TGACGACAGCCCCATAAACAGTTTTCCACCTCGTCAATTGACTTGACCCCTCTGGACATTGACACTTTG
CCAACACGACAAGCCCTGGAGCAGATCAGTGATTTTCAGAAACTCACATCACCACCACCACCTTCATCC
CAGAGCAGATCCAGACTCTTAGCCGCACACTCTCAGCAAAAGCTGCCTTTGGCTTCACTTTCCGGCAGTGT
GCCCGAGCACCGAACTGGCCCTTTTAGCCACAGGGCCCTAATGGGGCTTTTTCAGGAGTCTATCAAA
ACAATGTCATCTATTCTTATCAGCCTACTCCCACTCTGGGGCTCAATCTGGGCAATGACCCCGACCGAG
GCACGTCCATATGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-RsrII

ACCN:

NM_024379

Insert Size:

3024 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).

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_024379.1](#), [NP_077355.1](#)

RefSeq Size:

4623 bp

RefSeq ORF:

3024 bp

Locus ID: 79220
UniProt ID: [Q63226](#)
Cytogenetics: 4q31
Gene Summary: interacts with the PDZ-domain protein S-SCAM/MAGI-2 in cerebellar Purkinje cells [RGD, Feb 2006]