

Product datasheet for **RR207182**

Grid2 (NM_024379) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Grid2 (NM_024379) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Grid2
 Synonyms: GluD2
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR207182 representing NM_024379
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGAAGTTTTCCCTTGCTCTTCTTTCTATCCTTCTGGTGGTCTCGAACCTGGGACCTGGCGACCTCCG
 ATTCCATCATCCACATCGGAGCAATTTTTGATGAATCTGCTAAAAAGATGATGAAGTATCCGCACAGC
 AGTTGGTGACCTCAACCAGAATGAGGAAATCTACAGACTGAGAAAATCACATTTTCAGTGACATTTGTG
 GATGGCAACAACCTTTCAAGCTGTTCAAGAAGCATGTGAACCTATGAACCAGGGCATCTTGGCCTTGG
 TCAGCTCCATTGGTTGCACATCTGCTGGTCCCTCCAGTCTTTGGCAGACGCCATGCATATCCCTCACCT
 CTTCAATTCAGCGTTCAACAGCTGGGACCCCAAGAAGTGGCTGCGGCCTCACCAGGAGCAACAGAAACGAT
 GACTATACCCTTTTCAGTTCGTCACCTGTCTACTTGAATGAAGTCATCCTAAGAGTAGTCACAGAGTATG
 CATGGCAGAAATTTATTATCTTCTATGATAGTGAATATGATATCCGTGGCATAACAGGAATTTTTGGACAA
 AGTTTCCAGCAGGGAATGGATGTTGCCCTTCAAAGGTGGAAAAACAACATCAATAAAATGATCACCAGC
 CTCTTTGACACCATGAGGATAGAGGAGTTGAATCGCTATCGAGACACTCTCAGAAGAGCCATCTTGTTA
 TGAACCCCGCCACAGCCAAATCCTTATAAGTGAAGTGGTGGAGACTAATCTGGTTGCTTTTGCATGTCA
 CTGGATCATCAATGAGGAAATAAATGATGTGGATGTTGAGGAACCTGTGAGAGGTCATTGGAAAGG
 TTAACAATTATTCGGCAGACATTTCCAGTCCCCAGAATAAAGTCAGCGCTGTTTCCGTGGCAACCATC
 GAATTTCTTCAACACTGTGTGATCCCAAGGATCCCTTCGCACAGAATATGGAGATTTCTAACCTTTACAT
 CTATGACACGGTGCTTCTGCTTGCAAACGCCTTTCATAAGAAGCTGCAGGACCGGAAGTGGCACAGCATG
 GCGAGCTTGTCTGTATCAGGAAAACTCCAAGCCCTGGCAGGGAGGGCGGTCCATGCTGGAGACCATCA
 AGAAGGTGGAGTTAATGGATTGACTGGAGATCTAGAATTTGGAGAAAATGGAGGTAACCCCAATGTCCA
 CTTCGAAATCCTTGAACCAACTATGGAGAAGAACTTGGCAGGGGTGTCCTAAACTTGGGTGCTGGAAT
 CCTGTACAGGTCTGAATGGATCACTGACAGACAAGAACTGGAGAATAACATGCGAGGTGTGGTTCTAC
 GCGTGGTGACTGTATTGGAGAGCCTTTTGAATGGTCTCTGAAAATGTCTTGGGAAAACCGAAGAAATA
 CCAGGGCTTCTCCATTGATGTTTATAGTGCCCTATCTAACTATCTGGGTTTTAACTATGAAATTTATGTT
 GCACCGGACCACAAATATGGAAGCCACAAGAAGATGGGACATGGAATGGACTAGTAGGAGAAGTTGTT



[View online »](#)

TTAAGAGAGCTGACATCGGGATTTACGCTTTAACCATCACTCCAGACCGGGAGAATGTTGTGGATTTTAC
AACACGCCTACATGGACTACTCAGTAGGGGTCTACTGCGAAGGGCAGAAAAACAGTGGATATGTTTGCC
TGCTTGCACCATTTGATCTATCTGTGGGCTGCATTGCCGGCACAGTCTTCTTGTGGGACTCCTGG
TCTACCTCTTGAAGTGGCTTAATCCCCACGGTTGCAATGGGATCAATGACATCTACTACACTATAA
CTCCATGTGGTTTGTGTACGGGTCTTTGTACAGCAAGGTGGGAAGTACCATACACAACCTTTGGCAACC
CGAATGATGATGGGGCTTGGTGGTATTTGCTCTGATTGTCTCATCTTATACAGCAAACTTTGCCG
CCTTCTCACTATCACCCGATTGAGAGCTCCATCCAGTCTCTCAGGATCTGTCCAAGCAAACGGATAT
CCCTTATGGCACAGTCTTGGATTCCGCAGTATATCAGCATGTTTCATGAAGGGGCTGAATCCTTTTGG
AGGGACAGCATGTATTCCAGATGTGGAGGATGATCAACCGAAGCAATGGCTCAGAGAACAATGTTCTGG
AGTCCCAAGCAGGCATTCAAAGGTAATAATGGAACACTGCTTTTGTATGGGATGCAGCTGTGTTGGA
ATATGTGGCCATCAATGACCCCGACTGTTCTTCTACTGTTGGAAATACTGTTGCTGACCGGGGGTAT
GGCATCGCACTGCAGCATGGCAGTCCCTACCGTGTGCTTTTCAAAAGGATCCTGGAGCTGCAGCAGA
GTGGCGCATGGACATCCTCAAGCACAATGGTGGCCTAAGAATGGCCAGTGTGACCTGTACTCCTCAGT
AGATGCAAAGCAGAAGGGAGGAGCCCTGGACATCAAGAGTCTGGCAGGCGTGTCTGCATCCTGGCCGG
GGGATTGACTCTCCTGCCTCATAGCCGTCCTCGAGACATGGTGGAGTGGCGGAAGGGCTCCCGAGTCC
CATCGAAAGAGGATGACAAGGAAATTGACCTGGAGCACCTCCATAGACGTGTAATAAGCTTGTGCACAGA
TGACGACAGCCCCATAAACAGTTTTCCACCTCGTCAATTGACTTGACCCCTCTGGACATTGACACTTTG
CCAACACGACAAGCCCTGGAGCAGATCAGTGATTTTCAGAAACTCACATCACCACCACCACCTTCATCC
CAGAGCAGATCCAGACTTTAGCCGCACACTCTCAGCAAAAGTGCCTTTGGCTTCACTTTGGCAGTGT
GCCCGAGCACCGAACTGGCCCTTTTAGGCACAGGGCCCTAATGGGGGCTTTTTCAGGAGTCTATCAA
ACAATGCATCTATTCTTATCAGCCTACTCCCACTCTGGGGCTCAATCTGGGAATGACCCCGACCGAG
GCACGTCCATA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

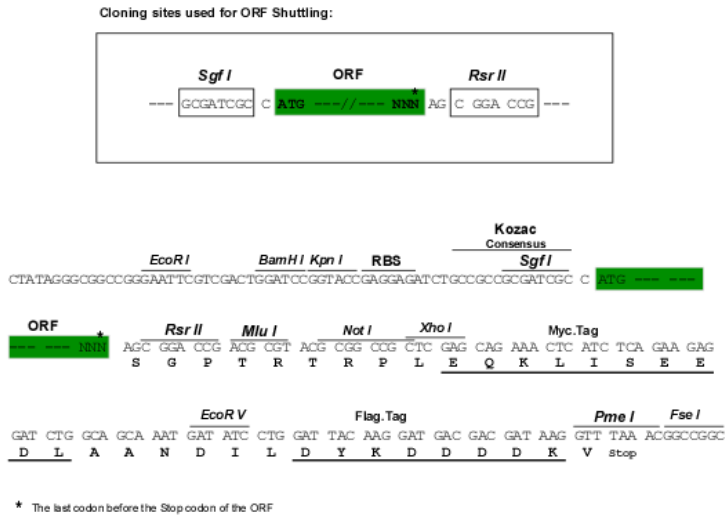
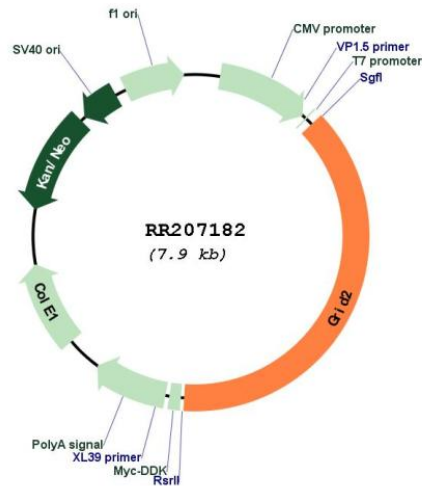
>RR207182 representing NM_024379
Red=Cloning site Green=Tags(s)

MEVFP LLFFLSFWWSRTWDLATSDSIIHIGAI FDES AKK DDEVFR TAVGDLNQN EELQTEKITFSVTFV
DGNPNPFAVQEA CELMNQ GILALVSSIGCT SAGSLQSLADAMH IPHLF IQRSTAGTPRSGCGLTRSNRND
DYTL SVRPPVYL NEVILRVVTEYAWQKFIIFYDSEYDIRGIQEFLDKVSQQGMDVALQKVENNINKMITT
LFD TMRIEELNRYRDLRRAILVMNPATAKSFISEVVETNLVAFDCHWIIINEEINDVDVQELVRRSIGR
LTIIRQTFPVPQNISQR CFRGNHRISSTLCDPKDPFAQNMEISNL YIYDVL LLANAFHKKLQDRKWHSM
ASL SCIRKNSKPWQGGRSML ETIKKGGVNLGTGLEFGENGNPNVHFEILGTNYGEELGRGVRKLGWN
PVTGLNGSLTDKLENNMRGVVLRVVTVLEEFV MVSENVLGPKKYQGF SIDVLDALSNYLGFN YEIYV
APDHKYGSPQEDGTWNGLVGELVFKRADIGISAL TITPDRENVDF TTRYMDYSVGVLLRRAEKT VDMFA
CLAPFDLSLWACIAGTVLLVGLLVYLLNWL NPPRLQMGSMSTTL YNSMWFVYGSFVQGGVEVPYTTLAT
RMMMGAWWLFALIVISSY TANLAAFLTITRIESSIQSLQDLSKQTDIPYGTVLDSAVYQHVRMGLNPF E
RDSMYSQMWRMINRSNGSENNVLESQAGIQKVKYGN YAFVWDAAVLEYVAINDPDCSFYTVGNTVADRGY
GIALQHGPSYRDVFSQRILELQQSGMDILKHKWPKNGQCDLYSSVDAKQKGGALDIKSLAGVFCILAA
GIVLSCLIAVLETWWSRRKGSRVPSKEDDKEIDLEHLHRRVNSLCTDDDSPHKQFSTSSIDL TPLDIDL
PTRQALEQISDFRNTHITTTT F IPEQIQTL SRTLSAKAAF GFTFGSVPEHRTGPFRRHAPNGGFFRSPIK
TMSSIPYQPTPLGLNLGNDPDRGTSI

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Plasmid Map:


ACCN: NM_024379

ORF Size: 3021 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:	<ol style="list-style-type: none">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:	<u>NM_024379.1</u> , <u>NP_077355.1</u>
RefSeq Size:	4623 bp
RefSeq ORF:	3024 bp
Locus ID:	79220
UniProt ID:	<u>Q63226</u>
Cytogenetics:	4q31
MW:	113.3 kDa
Gene Summary:	interacts with the PDZ-domain protein S-SCAM/MAGI-2 in cerebellar Purkinje cells [RGD, Feb 2006]