

Product datasheet for **RR200299**

Begain (NM_001111115) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Begain (NM_001111115) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Begain
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200299 representing NM_001111115
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAGCGATCAGTCTTCCAGGCCTCTGCCGAGACATGGAGAACTCAGTGCCTGCAGGAACAGA
 AGGGCGAGCTGCCAAGCGCCTGTCTACACCACGCACAAGTTGGAGAAGCTGGAGACGGAGTTGACTC
 CACCCGCCACTATCTGGAGATTGAGCTGAGGCGCGCACAGGAGGAGCTGGACAAGGTCACCGAGAACTG
 CGCAGGATTCAGAGCAACTACATGGCACTCCAGAGGATCAACCAAGAGCTGGAAGACAAGCTGTACCGGA
 TGGGCCAGCACTATGAGGAAGAGAAGCGTGCCATGAGCCACGAGATTGTCGCCCTCAACAGCCACCTGCT
 GGAGGCTAAGGTGACCATTGACAAGCTGTCAGAAGACAACGAGCTCTATAGGAAGGACTGCAATCTAGCG
 GCCAGCTGCTGCAGTGCAGCCAGACCTACGGCAGGGTCCATAAGGTGTCCGAGCTGCCCTCGGACTTCC
 AGCAGCGTGTGAGCCTGCATATGGAGAAGCATGGCTGCAGCTGCCGTCCCCTGTGCCATCCGTCTTA
 CGCCGACAGCGTCCCACCTGCGTCATCGCCAAGGTGCTGGAGAAGCCCGACCCTGGCAGCTGTCTCTCG
 CGCATGTCCGATGCCTCGGCCCGGACCTGGCCTACCGCGACGGAGTGGAGAACCCGGGCCCGGACCCC
 CGTACAAGGGAGACATCTACTGCAGCGACACGGCTCTCTACTGCCTGACGAGCGAGATCACGACCGCG
 GCCAGCGTGGACACGCCGGTGACCGACGTGGGCTTCTCGTGCAGAGAATCCACCGACAGCCTGGCG
 GAAGAGGAGGAGGCCGAGGCGCGGCCCTTCCGGAGGCCACCGTCCGAGGCGCTTCCAGGGCTACGCGG
 CCTCGTGCCACGTCCAGCTCTACTCCAGCTTACGCGCCACGTCGAGGAGAAGGAGCACGCGCAGGC
 CAGCAGCTGACCGCCTCGCAGCAGGCCATCTACCTGAACAGCCGGAAGAGCTTTCAGCCGAAGCCG
 CCCTCCGCCACCTACGGCAGCAGCCCTCGCTACGCCAAGGCCGCGCCACCCTGGGCTCCCCCTCGAGG
 CCCAGGTAGCCCCAGGCTTCGCTCGGACTGTGTCTCCGTACCCGGCCGAGCCCTACCGCTATCCGGCTC
 CCAGCAGCTCTCATGCCTCCCAACCTGTGGAGCCTGCGGGCCAAGCCGAGCGGTAACCGGCTTGCCGCC
 CGGGAGGACATTCGAGGCCAGTGGCGGCCCTGAGCGTGGAGGATGTGGGCGCCTACTCTTACCAGGCCG
 GCGCTGCAGGCCGCGCCCTCGCCCTGCAACTTCTCAGAACGTTTCTACGGCGCGGTGGCGGCGCGG
 CAGCCCGGGAAGAATGCCGAGGCGCGTCCAGCCCTCTATGCCAGCTACAAAGCCGATAGTTTCTCG
 GAGGGCGATGACCTCTCCAGGGTATCTGGCCGAGCCCTGCTTCTCCGAGCGGGTGGTATCTGAGCC
 TCAGCCCCAGCCGTTAGCTGATCTCTCCCTGGCTATGCCACCAGTACGCGGGATGGGGATAGGCTCGG
 GGTGCAGCTGTGTGGCCTGGCAGTAGCCCGAGCCGAGCACGGCTCCCGGATTCCTGGAGCCTAGC
 TCCATGGAGGCCCTCCCGAAATGCACCCTCAACCCGCTCAGCCCCAGCAGGCTTCCCAAGGACTG
 GAGGCTCTGGGCTGAGCCGCAAGGACAGTCTACTAAGGCCAGCTCTACGGAACCTGTCTAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200299 representing NM_001111115
 Red=Cloning site Green=Tags(s)

MGSDQSSQASAADMEKLSALQEQQGELRKRLSYTTHKLEKLETEFDSTRHYLEIELRRAQEELDKVTEKL
 RRIQSNMALQRINQELEDKLYRMGQHYEEKRAMSHEIVALNSHLLLEAKVTIDKLSEDNELYRKDCNLA
 AQLLQCSQTYGRVHKVSELPDFQQRVSLHMEKHGCSLPSPLCHPSYADSVPTCVIAKVLEKPDGSLSS
 RMSDASARDLAYRDGVENPGPRPPYKGDICYSDTALYCPDERDHRRPSVDTPTVDVGFLLRAQNSTDSL
 EEEEEAAAFPEAYRREAFQGYAASLPTSSSYSSFATSEEKEHAQASTLTASQQAIYLNREELFSRKP
 PSATYGSSPRYAKAAATLGSPLEAQVAPGFARTVSPYPAEPYRYPASQQALMPPNLWSLRAKPSGNRLAA
 REDIRGQWRPLSVEDVGAYSQYQAGAAGRAASPCNFSERFYGGGGGGSPGKNAEGRASPLYASYKADSF
 EGGDL SQGHLAEPFCFLRAGGDL SLSPRSADPLPGYATSDGDGDLGVQLCGPGSSPEPEHGRSRLSLEPS
 SMEASPEMHPPTRLSPQQAFPRTTGGGSLSRKDSLTKAQLYGTLLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

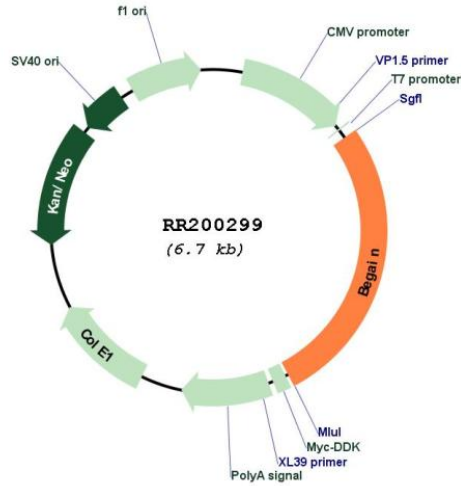
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001111115

ORF Size:	1815 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:	NM_001111115.1 , NP_001104585.1
RefSeq Size:	2807 bp
RefSeq ORF:	1818 bp
Locus ID:	79146
UniProt ID:	O88881
Cytogenetics:	6q32
MW:	66.2 kDa
Gene Summary:	binds the guanylate kinase domain of PSD-95/SAP90, may play a role in the post-synaptic membrane [RGD, Feb 2006]