

Product datasheet for **RR205595**

Gga2 (NM_001100519) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gga2 (NM_001100519) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gga2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205595 representing NM_001100519
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGACGGCTGTGGCGGCGGGACCGGATCCCCGCAGGGACCGAGTCGGCGGAGGGCGCCCTG
 GCTCAGCGGCGGCACTGGAGCTGTGGCTCAACAAAGCCACAAACCCAAGTATGGCAGAGCAGGATTGGTC
 AGCCATCCAGAAGTTCTGTGAGCAGGTGAACACCGACCCAGTGGCCCAACACATGCGCCCTGGCTACTG
 GCCACAAGATCCAGTCTCCACAGGAGAGGGAAGCTCTTTACGCCCTGACGGTGTGGAGATATGCATGA
 ACCACTGCGGGGAGAAGTCCACAATGAAGTGGCCAAGTTTCGCTTCTGAATGAACTGATCAAAGTATT
 GTCCCCAAAGTACCTAGGGGCTGGGCTACGGAGAAGGTTAAAGGAAGAGTTATTGAAATCTCTTTAGC
 TGGACAGTCTGGTTCCGGAAGACATCAAGATCCGAGATGCTTATCAGATGCTGAAGAAGCAAGGAATCA
 TAAAGCAAGACCCTAAACTACCGATGGATAAGATCCTGCCGCCACCGTCCCCCTGGCCGAAGAGCATCTT
 TGATGCTGATGAGAAAAGTCAAAGCTTCTGACAAGACTTCTCAAGAGCAACCACCCGAGGATCTTCAG
 GCTGCAAACCGGCTGATCAAGAAATTTGGTCAAGGAGGAACAAGAAAAGTCAAGAAAAGGTGTCAGGCGGAG
 TCAGTGGCGGTAGAGGAAGTCCGCAGCCACGTGAGAGTGTGCGGGAGATGCTGAGCATGTACCGAAGGCC
 AGGCCATGCCCTGCCTGACCAGCAGGCCCTGCAGGTTGTCTATGAAAGATGTGAGAAGCTTCGGCCCACT
 CTGTTCCGGCTTGCAAGCGACACCCTGATGACGACGATGCACTGGCGGAGATCTTCAAGCAAATGACC
 TTCTCACCAAGGGGTTCTGTGTACAACAGGTGGTGAAGGCCGAGTCAATGCCGGGAATGCAGTGCC
 CGCCGAGTGGGAGCCATCTCTGCTTCCAGAGTGTCCGAGTCCAGAACCCTGTGGGAAGAACTGCCCC
 CTCATTGACCTGGAGGCACCCTTTGCTTATCAGGACCTGGCGGCTTAGGGATCAACGATGTTCCCA
 CTAGGAACCAAGGTTGTCATTCCAAGTTGCTGTAAAGACAAGAAGCAGCCTGGTGCCATCACACTATGGG
 GGGTGAATCCAGAGTCTTTCTGCAGACCGGAACCTTGTGGATCTCTTCTCGCCACAGCCGTCTCCAGGA
 CCACTGAATTACGTTCCACAAAAAGCATCCCCAAGGAGGTGCCACCAGGTACCAAGGCCTCTCCAGGTT
 GGTCTGGGAGGCTGGGCCATTGGCTTCTTCCCAGCCTCACAGAATACACCTCTGGCTCACGTGTTTGT
 CCCTTTGGAGTCTGTGAAGCCCAGCAGCCTGCCGCCATCATCGTGTATGACCGGAACGGCTTCCGAATT
 CTGCTGCACTTCTCCAGACGGGGGCCCTGGCCACCCGGATGTGCAGGTGTGCTGTTGACCATGATGA
 GCACTGCCACCCAGCCTGTCTGGGACGTCATGTTTCAGGTGGCTGTCCAAAGTCGATGCGAGTGAAGCT
 GCAGCCAGCATCCAGTTCGAAGCTCCAGCATTAGTCTTTGACGCCTCCAGCCGTGATCTCTCAGATG
 CTGTTGCTCGACAACCCACAAAAGAACCTATCCGGTTGCGGTACAAGCTGACTTTCAACCAAGGCGGGC
 AGCCGTTCAAGTAGGAGAGGTGAAAGACTTCCAGACCTGGCCGTCTTGAGCACCGCC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205595 representing NM_001100519
 Red=Cloning site Green=Tags(s)

MAATAVAAGTGSPAGTESAEGAPGSAAALELWLNKATNPSMAEQDWSAIQKFCEQVNTDPSGPTHAPWLL
 AHKIQSPQEREALYALTVLEICMNHCGEKFHNEVAKFRFLNELIKVLSPKYLGAWATEKVKGRVIEILFS
 WTWVFPEDIKIRDAYQMLKKQGIKQDPKLPMDKILPPSPWPKSIFDADEEKSKLLTRLLKSNHPEDLQ
 AANRLIKNLVKEEQEKSEKVSRRVSAVEEVRSRVRVLRREMLSMYRRRPGHALPDQALQVYVERCEKLRPT
 LFRLASDTTDDDDALAEILQANDLLTQGVLLYKQVVEGRVNAAGVPAAVGAIPASRVFSPPEPCGNCP
 LIDLEAPSLHQLAALGINDVPTRNQVVIPSCCKDKKQPGAITLMGGGIQSLADRNLDDLFSQPSPG
 PLNYVPQKSIKPEVPPGKASPGWSWEAGPLASSPQNTPLAHFVPLESVKPSLPPPIIVYDRNGFRI
 LLHFSQTGAPGHPDVQVLLL TMMSTATQPVWDMFQVAVPKSMRVKLPASSSKLPAFSPLTPPAVISQM
 LLLDNPHKEPIRLRYKLT FNQGGQPFSEVGEVKDFPDLAVLSTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

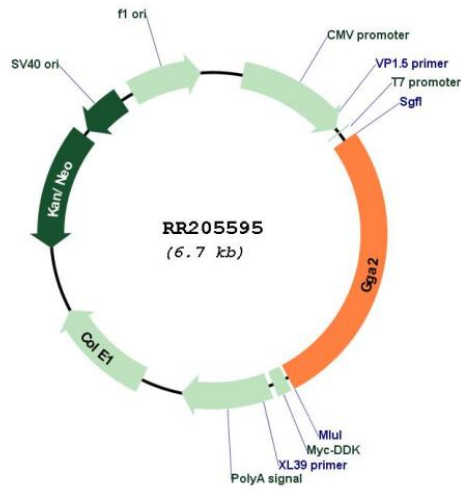
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001100519

ORF Size:	1812 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_001100519.1 , NP_001093989.1
RefSeq Size:	2833 bp
RefSeq ORF:	1815 bp
Locus ID:	293455
Cytogenetics:	1q36
MW:	66.2 kDa