

## Product datasheet for **RC206993**

### Centaurin gamma 1 (AGAP2) (NM\_014770) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Centaurin gamma 1 (AGAP2) (NM_014770) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Centaurin gamma 1
Synonyms:	CENTG1; GGAP2; PIKE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC206993 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATGCCAGAGGCAGTTCTGTTAGCTGCAGTGAGAGCAGAAGTCAGACGACATGAGGTGGCCAAGC  
 AGGCTCTAAACCGCCTCAGGAAGCTGGCAGAGAGGGTGGACACCCGAACTCCAGGACAGCATCCAGGC  
 CTATTGGACAGCATTTCGAGAGGCTGTGATCAATAGCCAGGAATGGACTTTGAGCCGCTCCATTCCTGAA  
 CTGCGCCTGGGTGTGCTGGGCGATGCCAGGAGTGGGAAGTCATCGCTCATCCACCGATTCTGACTGGCT  
 CATACCAGGTGCTGGAGAAGACAGAGAGTGAGCAGTACAAGAAAGAAATGTTGGTGGATGGACAGACACA  
 TCTGGTGTAAATCCGAGAGGAAGCTGGGGCACCTGATGCCAAGTTCTCAGGCTGGCAGATGCTGTGATC  
 TTCGTCTTCAGCCTGGAGGATGAGAACAGTTTCCAGGCTGTGAGCCGTCTCCATGGGCAGCTGAGTTCCC  
 TTCGGGGGAGGGACGAGGAGGCCCTGGCCTTGGCACTGGTGGGGACACAAGACAGGATCAGTGCTTCCCTC  
 CCCTCGGGTGGTGGGAGATGCTCGTGCCAGAGCTGTGCGCGGACATGAAACGCTGCAGCTACTATGAG  
 ACTTGTGCAACCTATGGGCTCAATGTGGATCGGGTCTTCCAGGAGGTGGCCAGAAGGTGGTGACCTTGC  
 GCAAGCAGCAACAGCTTCTGGCTGCCTGCAAGTCCCTTCCAGCTCCCAAGCCACTCAGCTGCATCCAC  
 TCCGGTAGCTGGCCAGGCTAGTAACGGGGGCCACACTAGCGACTACTTCTTCCCTCCCGTCTCACCG  
 AATGTTGGTCACCGGGAGCTCCGAGCCGAGGCAGCTGCAGTGGCTGGATTGAGCACCCAGGGTCCCTGC  
 ACCGGGACGCCAAGCGCAGGACCAGCCTTTTTGCGAATCGTCGGGGTAGTGACTCCGAGAAACGAAGCTT  
 GGATAGTCGGGGAGAGACAACAGGGAGTGGGCGAGCCATCCCCATCAAACAGAGCTTCTACTAAAACGA  
 AGTGGCAATTCCTTGAACAAAGAATGGAAGAAGAAATATGTAACCCTGTCCAGTAATGGCTTCTACTCT  
 ACCACCCAGTATTAACGATTACATCCACAGTACCCACGCAAGGAGATGGACTTGCAGCAACACAGT  
 CAAAGTCCCGGGCAAGCGGCCCCCGAGGGCCATCTCTGCCTTTGGCCCTCAGCCAGCATTAAACGGGCTC  
 GTCAAGGACATGAGCACTGTCCAGATGGGTGAAGGCTGGAAGCCACTACTCCCATGCCAAGCCCTAGCC  
 CCAGCCCCAGTTCCTGCAGCCACCACCAGATCAGACATCCAAACACCTGCTGAAGCCAGACCGGAATTT  
 GGCCCCAGCCCTCAGCACGGACTGTACCCATCTGGAGACCTGAGCCCCCTGAGTCGGGAACCCCTCT  
 TCTCCATGGTGAAGAAGCAGAGGAGGAAAAAATTGACAAACCATCCAAGACTGAAGGCTCGGCTGGGC  
 AGGCTGAAGAGGAAAACCTTGGTTCCTGATCGTGTCCAGCACGGGTGAGACGTGGCACTTTGAGGCAGC  
 CAGTTTTGAGGAGCGGGATGCCTGGGTCCAGGCCATCGAGAGTCCAGTCCAGTCTGCAATGCTGT  
 GAGAGCAGCAAGGTCAAGCTGCGCACAGACAGCCAAAGCGAGGCCGTGGCCATCCAGGCATCCGGAACG  
 CCAAGGGGAATCAATCTGCGTGGACTGCGGGGCCCCAAACCCACGTGGGCCAGCTTGAACCTGGGCGC  
 CCTCATCTGCATCGAGTGTCTGGCATCCACCGCAACCTGGGCACACACCTGTCCCGCTTCGCTCGCTG  
 GACTTGGACGACTGGCCACGGGAGCTGACCCTGGTGTGACGGCTATTGGCAACGACACGGCCAACCGCG  
 TGTGGGAAAGCGACACCGGAGGCCGTGCCAAGCCCTCGCGGGACTCTTCGCGGGAGGAGCGGAGTCTGT  
 GATTCGCGCAAGTACGAGCAGTACTGTTCTGGCGCCGCTGAGCACCTCGGAGGAGCCGCTGGGCCG  
 CAGCTGTGGGCCCGCTGACAGGCCAGGACGTGGCTACCGTTCTCCTGCTTTGGCCATGCGCGACAG  
 GGCCGCTGACACAGCGTAGAGGACCCACAGTGGCTCCCCACTCCACTGGCGGCCGAGCTCGCCCA  
 CGTCGTATCACGCAACTGCTGCTGTTGACGGCGCGGACGTGGCGGCCGCTGACGCCAGGGCCGACAG  
 GCGCTGTTCTACGCCCGCCAGGCTGGAAGCCAGCTGTGCGCCGACATCCTTCTCCAGCAGGCTGCCCG  
 GTGAGGGCGCAGCGCGGCCACCAGCCAGCGGCCACCAGCCAGCATCACCGCCAGCCAGCCAGCC  
 CCGCCCGGAGCAGCGCCGCTAGCGTGGGCGCGCCGACGCCCCGTTGCGCTGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC206993 protein sequence  
Red=Cloning site Green=Tags(s)

MHAQRQFVVAAVRAEVRHEVAKQALNRLRKLAEVDDPELQDSIQASLDSIREAVINSQEWTLRSRIPE  
LRLGVLGDARSGKSSLIHRFLTGSYQVLEKTESEYKKEMLVDGQTHLVLIREEAGAPDAKFSGWADAVI  
FVFSLEDENSFQAVSRLHGQLSSLRGEGRGGLALALVGTQDRISASSPRVVGARARALCADMKRCSYYE  
TCATYGLNVDRVFQEAQKVVTLRKQQQLLAACKSLPSSPSHSAASTPVAGQASNGGHTSDYSSSLPSSP  
NVGHRELRAEAAAVAGLSTPGSLHRAAKRRTSLFANRRGSDSEKRSLDSRGETTGSGRAIPIKQSFLLKR  
SGNSLNKEWKKKYVTLSSNGFLLYHPSINDYIHSTHGKEMDLLRTTVKVPGRPPRAISAFGPSASINGL  
VKDMSTVQMGEGL EATTPMPSPSPSSLPQPPDQTSKHLKPDRLARALSTDCTPSGDLSPLSREPPP  
SPMVKKQRRKLTTPSKTEGSAGQAEENFEFLIVSSTGQTWHEAASFEERDAWVQAIESQILASLQCC  
ESSKVKLRTDSQSEAVAIQAIRNAKNSICVDCGAPNPTWASNLGALICIECGIHRNLGTHLSRVRS  
DLDDWPRELTLVLT AIGNDTANRVWESDTRGRAKPSRDSSREERESWIRAKYEQLLFLAPLSTSEEPLGR  
QLWAAVQAQDVATVLLLLAHARHGPLDTSVEDPQLRSPLHLAAELAHVVITQLLLWYGADVAARDAQRT  
ALFYARQAGSQLCADILLQHGPCGEGGSAATTPSAATTPSITATPSPRRRSSAASVGRADAPVALV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6834\\_b03.zip](https://cdn.origene.com/chromatograms/mk6834_b03.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_014770

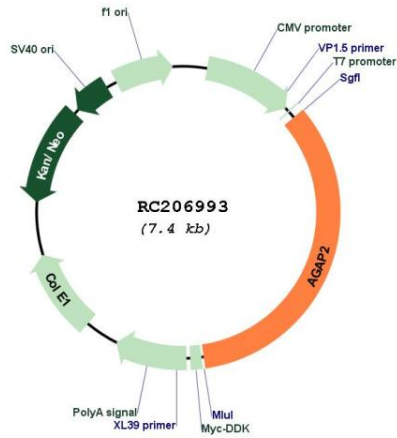
**ORF Size:** 2508 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_014770.4</a>
<b>RefSeq Size:</b>	4860 bp
<b>RefSeq ORF:</b>	2511 bp
<b>Locus ID:</b>	116986
<b>UniProt ID:</b>	<a href="#">Q99490</a>
<b>Cytogenetics:</b>	12q14.1
<b>Domains:</b>	ArfGap, PH, ANK, RAS, RAB
<b>Protein Pathways:</b>	Endocytosis
<b>MW:</b>	90.5 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the centaurin gamma-like family. It mediates anti-apoptotic effects of nerve growth factor by activating nuclear phosphoinositide 3-kinase. It is overexpressed in cancer cells, and promotes cancer cell invasion. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC206993