

## Product datasheet for SC319027

### Centaurin gamma 1 (AGAP2) (NM\_001122772) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Centaurin gamma 1 (AGAP2) (NM_001122772) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGAP2
Synonyms:	CENTG1; GGAP2; PIKE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC319027 representing NM_001122772. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
    
```

- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM\_001122772
- Insert Size:** 3579 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001122772.2](#)

**RefSeq Size:** 5838 bp

**RefSeq ORF:** 3579 bp

**Locus ID:** 116986

**UniProt ID:** [Q99490](#)

**Cytogenetics:** 12q14.1

**Protein Pathways:** Endocytosis

**MW:** 124.6 kDa

**Gene Summary:** 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]

Transcript Variant: This variant (1) encodes the longer isoform (PIKE-L). This isoform is thought to participate in the prevention of neuronal apoptosis by enhancing nuclear phosphoinositide 3-kinase activity (PMID:14528310). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.