

## Product datasheet for **MG219268**

### Cabyr (NM\_027687) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cabyr (NM_027687) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cabyr
Synonyms:	1700016C01Rik; 4933421A18Rik; CBP86; FSP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG219268 representing NM\_027687  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTTCTTCAAAGCCAGACTTGTGTACCCTATGGCCTCAAGACTCTGCTTGAGGGAGTTAGCAGAG  
 CCATTCTCAAACCAATCCAACAACATCACCCAGTTTGACGCCGTTATTTTAAAGAACTATTGTGTT  
 TAGAGAAGGGAATTCGTCTCTAGATATAAAGATCTGATTAACAGTTTCACCAGATGAAAGTAGAGAAA  
 TGGGCAGAAGGAGTGACAGTGGAGAAGAAAGATGTATCAAGGAACCCATAAAACCACCTCCAGTCCCT  
 GCAAACCCACACATATGGAAAAATCCACAGACACAGAGGAGGACAATGTAGCTGGACCACTATTTAGCAA  
 CAAAACCACTCAGTTCCATCAGTTCATGCTGAAGTACAGTCTGAGGAGACAAGTGAAGGAGCTCGGGT  
 CCCTCTGACAAACCGACTACTCCTAAGACCGACTACACCCACCCTCGTACCACCTCCAGCGCCTGTCT  
 CTGCCGAGTACGTTATGTCCAGCTGACCCAGCTCAGTTGCCGCTCAGATGTTAGGTAATGTGCCATC  
 TACTTATTCTGAAGTTTTAATGGTGGACGTGGCAACAAGTACGCCGCTGTTCCCAAGGAGTACTGAGT  
 GCAGAGTTTGCTGAAGAAGTCGTCTGTCTGCCCTCTGGTGTGCTCTGGAGAGACGGTAGAAGTGCAGG  
 TTGTGAGCAAAACATCTGCGCAGGTAGTTGTGGGTCTGTGTCTGAGGCTGAACCACAAAGGCTTCCTC  
 AGCCCCCTTGACGGTGAACAAGAACCTCTGCTCATGAAGCTCCTGATACCCAGGTTACATCAGCCAGT  
 CGTATATCATCCATATAAACGATGTGCCTGTCAATGAAGGAGTTGTCTATGTTGAGGAGATACCAGGAT  
 ACATAGTTATCCCTTTTACTGATCATGATCAAGTTGCTTGTGTTAAAGAAATTGAGCAGTACCACCAGG  
 TAGTCCCAAAGCTGTAGAACCAAGACTAAAATATCTATAGAGTCTCTGAAAAGTGTCCAGGTGGAGGAG  
 AATTCCCAACACAAGTCCCTCAGTACACGTGGAGGCAGAAGCTACAGTTCGTCTCTAACACTGCTTTAG  
 ATGGTCAGCCCCGAGGTACCTGCAGAACCCTGGATGCAGAGGGCTTTTTCAAAGTAGCCTCTGAAAATTC  
 TCTGCACCTTGAACGGAGATCGTTATCATAAACCCCTGATGATCCTGGCCAGGAGGATCAGGGGGGAAAC  
 GCTGCACCCATTCTGCTGACCCCTCCCTCCTGCGCCAGGAGGCCCTTACTGAACCAGAAATGCAAC  
 CAGATGGGGAAGCTGCTCCTGAACAGTT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG219268 representing NM\_027687  
 Red=Cloning site Green=Tags(s)

MISSKPRLLVVPYGLKTLLEGVSRAILKTNPTNITQFAAVYFKELIVFREGNSSLDIKDLIKQFHQMKVEK  
 WAEGVTVEKKECIKEPIKPPVPCKPTHMEKSTDEEDNVAGPLFSNKTTQFPSVHAEVQSEETSEGARG  
 PSDKPTTPKTDYTPSSPPPAPVSAEYAYVPADPAQFAAQMGNVPSTYSEVLMVDVATSTPAVPQDVL  
 AEF AEEVVL SAPLVCSGETVEVQVVSKTSAQVVVGPVSEAEPPKASSAPLQGEQEPPEAHEAPDTQVTSAS  
 RISSIYNDVPVNEGVIYVEEIPGYIVIPFTHDQVACVKEIEQSPPGSPKAVEPKTKISIESLKTQVVEE  
 NSQHKSSVHVEAEATVLLSNTALDQPEVPAEPLDAEGFFKVASENSLHLETEIIVIINPDDPGQEESSGN  
 AAPHSSGDPFPPAPGGLTEPEMQPDGEAAPEQV

**TR**TRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_027687

**ORF Size:** 1359 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](#)

**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).

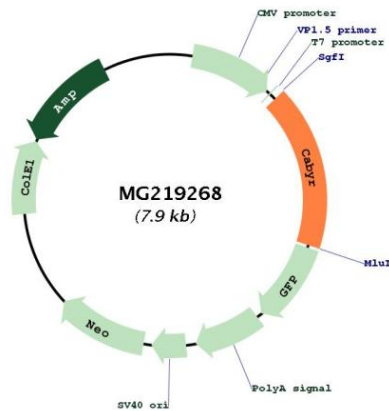
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_027687.2](#), [NP\\_081963.1](#)

RefSeq Size: 2125 bp  
 RefSeq ORF: 1362 bp  
 Locus ID: 71132  
 UniProt ID: [Q9D424](#)  
 Cytogenetics: 18 A1

Gene Summary: May function as a regulator of both motility- and head-associated functions such as capacitation and the acrosome reaction. May bind calcium in vitro (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG219268