

## Product datasheet for MR219370

### Cabyr (NM\_181731) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cabyr (NM_181731) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cabyr
Synonyms:	1700016C01Rik; 4933421A18Rik; CBP86; FSP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219370 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTTCTTCAAAGCCAGACTTGTGTACCCTATGGCCTCAAGACTCTGCTTGAGGGAGTTAGCAGAG  
CCATTCTCAAACCAATCCAACAAACATCACCCAGTTTGCAGCCGTTTATTTTAAAGAACTATTGTGTT  
TAGAGAAGGGAATTCGTCTCTAGATATAAAGATCTGATTAACAGTTTCACCAGATGAAAGTAGAGAAA  
TGGGCAGAAGGAGTGACAGTGGAGAAGAAAGAATGTATCAAGGAACCCATAAAACCACCTCCAGTCCCT  
GCAAACCCACACATATGGAAAAATCCACAGACACAGAGGAGGACAATGTAGCTGGACCACTATTTAGCAA  
CAAACCACTCAGTTTCCATCAGTTCATGCTGAAGTACAGTCTGAGGAGACAAGTGAAGGAGCTCGGGGT  
CCCTCTGACAAACCGACTACTCCTAAGACCGACTACACCCACCCTCGTACCACCTCCAGCGCCTGTCT  
CTGCCGAGTACGCTTATGTCCCAGCTGACCCAGCTCAGTTTGGCGCTCAGATGTTAGCACTAGCAACAAG  
CGAAGCAGGACAACCACCACCATATTCTAATATGTGGACACTTTATTGTCTAACTGATATGAATCAACAA  
AGTCGCCCATCACCGCCACCTGCACCTGGGCCTTTTCCCCAAGCAACCCTGTATTTACCTAATCCTAAGG  
AGCCACAGTTTCTGCAGAACCACCGAAAGTACGCTCCTCAACTTATGTGATGATGGATGACAGCAAGAA  
GACCAATGCCCCACCTTTTATATTAGTAGGCTCAAATGTTCCAGGAAGCGCAGGATTGGAACCCCTCTTCT  
GGACATGCTGTTGTGCACAAGCAGAGGCCTTGAAGAGATATGCTGCAGTGAAGTGCCTTGTGTTTCT  
CTGCAGATCAGACATTCCAGAGACCTGCCCAAATCCCCAGAATGCTAGTCTCCTACAAGTGGACAAGA  
TGGCCCCAGACCGAAAAGCCAGTCTTTCTTTCTGTTGCTTTCCAGTAGAAGATGTAGCTAAAAAGAGT  
TCAGGATCTGGTGACAAACGTACTCCCTTTGGAAGTTATGGTATTGCTGGCGAAATTACTGTGACTACTG  
CCCATGTCCGAGAGCAGAACCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR219370 protein sequence  
 Red=Cloning site Green=Tags(s)

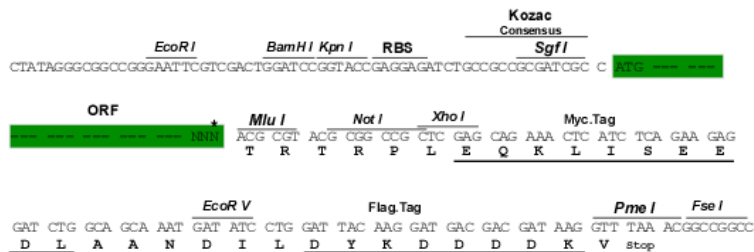
MISSKPRLVVPYGLKTLLEGVSRAILKTNPTNITQFAAVYFKELIVFREGNSSLDIKDLIKQFHQMKVEK  
 WAEGVTVEKKECIKEPIKPPVPCKPTHMEKSTDEEDNVAGPLFSNKTTQFPSVHAEVQSEETSEGARG  
 PSDKPTTPKTDYTPSSPPAPVSAEYAYVPADPAQFAAQMLALATSEAGQPPPYSNMWTLYCLTDMNQ  
 SRPSPPPAPGPFQATLYLPNPKEPQFLQNPVKVTSPYVMMDDSKKTNAPPFILVGSNVQEAQDWNPLP  
 GHAVVSQAEALKRYAAVQVPIAVPADQTFQRPAPNPQNASPTSGQDGRPRKSPVFLSVAFPVEDVAKKS  
 SSGDKRTPFGSYGIAGEITVTTAHVRAEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_181731

**ORF Size:** 1146 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:**

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\\_181731.3](#), [NP\\_859420.2](#)

**RefSeq Size:** 1301 bp

**RefSeq ORF:** 1146 bp

**Locus ID:** 71132

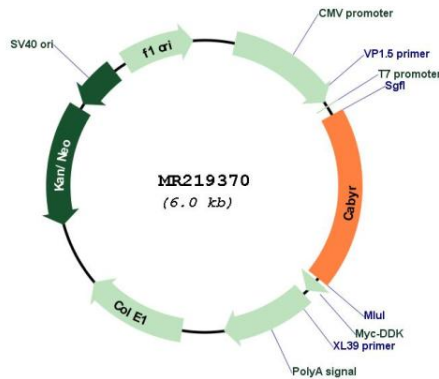
**UniProt ID:** [Q9D424](#)

**Cytogenetics:** 18 A1

**MW:** 41.3 kDa

**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 MR219370