

Product datasheet for MR223059

Acp5 (NM_001102405) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acp5 (NM_001102405) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acp5
Synonyms:	TRACP; TRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223059 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATTCATGGGTGGTCTGCTGGGCCTACAAATCATATGGCTCCCACTCCTGACCCACGGTACAGCCC
CCACTCCCACCCTGAGATTTGTGGCTGTGGCGACTGGGAGGGTCCCAATGCCCATCCACACAGC
CCGGAAATGGCCAATGCCAAAGAGATCGCCAGAACCCTGCAGACGATGGGCGTGACTTCATCATGTCT
CTGGGGGACAATTTCTACTTCACTGGAGTGCACGATGCCAGCGACAAGAGTTCCAGGAGACCTTTGAGG
ACGTGTTCTCTGACCGTGCCTTCGCAACATCCCCTGGTATGTGCTGGCTGGAAACCATGATCACCTTGG
CAACGTCTCTGCACAGATTGCATACTCTAAGATCTCCAAGCGCTGGAACCTCCCCAGCCCTTACTACCGT
TTGCGCTTCAAAATCCACGTACAAACATAAAGTGTGGCCATCTTTATGCTGGACACAGTGTGCTGTGTG
GCAACTCAGATGACTTTGCCAGTCAGCAGCCAAAATGCCTCGAGACCTGGGAGTGGCCCGCACTCAGCT
GTCCTGGCTCAAAAAGCAGTTGGCAGCAGCCAAGGAGGACTACGTTTTGGTGGCCGGCCACTACCCCATC
TGGTCCATCGCCGAGCAGGACCCACGCGCTGCCTGTCAAGAACTTGGCACCATTGTTAGCCACATACG
GGGTCCTGCTACCTGTGTGGACATGACCACAACCTGCAGTATCTTCAGGACGAGAACGGTGTGGGCTA
TGTGCTGAGTGGGCGGCAACTTCATGGATCCCTCTGTGCGACATCAACGAAAGGTCCCCAACGGCTAC
TTGCGGTTTCACTATGGATCTGAGGACTCCCTGGGCGGCTTACACATGTGGAGATAAGCCCCAAGAAA
TGACCATCATATGTGGAAGCCTCTGGAAAATCACTCTTTAAGACCAGCCTCCCAAGGAGACCCAGACC
C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223059 protein sequence
Red=Cloning site Green=Tags(s)

MDSWVLLGLQIWLPLLTHGTAPTPTLRFVAVGDWGGVNPAPFHTAREMANAKEIARTVQTMGADFIMS
 LGDNFYFTGVHDASDKRFQETFEDVFSDRALRNIPWYVLAGNHDHLGNVSAQIAYSKI SKRWNFSPYYR
 LRFKIPRTNITVAIFMLDVTMLCGNSDDFASQQPKMPRDLGVARTQLSWLKKQLAAKEDYVLVAGHYPI
 WSI AEHGPTRCLVKNLRPLLATYGV TAYLCGH D HNLQYLQDENG VGYVLSGAGNFM D P S V R H Q R K V P N G Y
 LRFHYGSEDSLGGFTHVEISP KEMTIIYVEASGKSLFKTSLPRRPRP

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_001102405

ORF Size: 981 bp

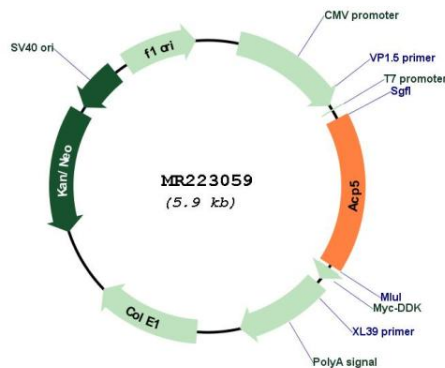
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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_001102405.1](#), [NP_001095875.1](#)
- RefSeq Size:** 1425 bp
- RefSeq ORF:** 984 bp
- Locus ID:** 11433
- UniProt ID:** [Q05117](#)
- Cytogenetics:** 9 8.38 cM
- MW:** 36.8 kDa
- Gene Summary:** May play a role in the process of bone resorption. The osteoclastic trap acts on nucleotide tri- and diphosphates with higher affinity, compared with other substrates.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223059