

Product datasheet for **MR228733**

Rapgef4 (NM_001204167) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rapgef4 (NM_001204167) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rapgef4
Synonyms:	1300003D15Rik; 5730402K07Rik; 6330581N18Rik; Epac-2; EPAC 2; Epac2; mKIAA4040
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228733 representing NM_001204167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCGCTGCGCAGCTGCACACTCTCAGTCCTCGGCCGAGTGGATCGCCTGCCTGGATAAAAGGCCGT
TGGAGCGTCTAGTGAAGATGTGGACATAATTTTCACGCGGCTGAAAGGAGTTAAAGCTTTTGAGAAATT
TCACCCAAACCTCCTTCGTCAGATTTGTTTATGCGGTTACTATGAGAACCTGGAAAAAGGAATCACACTG
TTTCGCCAAGGGGATATTGGAACCAACTGGTATGCTGTCCTGGCTGGGCTTTGGATGTTAAAGTGTCTG
AGACCAGCAGTACCAGGATGCGGTGACCATCTGCACTCTGGGAATTGGGACAGCCTTTGGAGAGTCCAT
TCTGGATAACACCCCTCGCCATGCAACCATCGTTACCAGGGAGAGCAGCGAACTTCTCCGATTGAGCAG
GAGGACTTCAAGGCACTATGGGAGAAATACCGACAGTATATGGCCGACTTCTGGCTCCTCCCTATGGTG
TTATGGAAACGGGCTCTAACAATGACAGGATCCTGACAAGGAGAATGTGAGTAGCCACTTTTCTGCCT
CGCTTCTGTAACCTGTCTAAGGTAAAACATAAGCACAGCGACCTTCTGAGCAAAGGAAGCTCTCCATCT
GCAGTCAACAGAGCAATAAATATTATTCTAGTCTTACTGTGCCATCTCGGGCGAGTCATTAGAATACCC
AGGAGAGCAGGGTGACTGCTGGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR228733 representing NM_001204167
 Red=Cloning site Green=Tags(s)

MVAHAHAHSQSSAEWIACLDKRPLERSSEVDVIFTRKGVKAFEKFPNLLRQICLCGYENLEKGITL
 FRQGDIGTNWYAVLAGSLDVKVSSETSSHQDAVTICTLGIGTAFGESILDNTPRHATIVTRESSELLRIEQ
 EDFKALWEKYRQYMAGLLAPPYGVMETGSNNDRIPDKENVSSHFCCLASVNC PKVKKHKS DLLSKGSSPS
 AVNRAINIILVLLWHLGRVIQNTQESRVTAGT

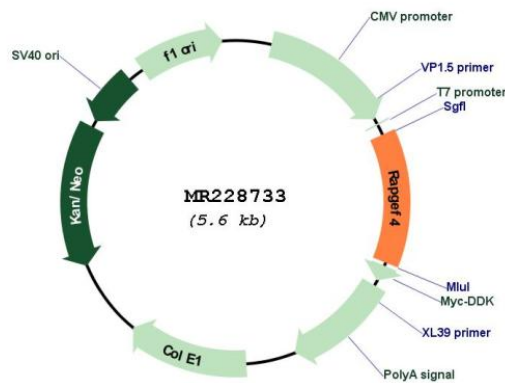
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001204167

ORF Size: 726 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:	<ol style="list-style-type: none">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_001204167.1 , NP_001191096.1
RefSeq Size:	3891 bp
RefSeq ORF:	729 bp
Locus ID:	56508
Cytogenetics:	2 C3
MW:	27.3 kDa
Gene Summary:	Guanine nucleotide exchange factor (GEF) for RAP1A, RAP1B and RAP2A small GTPases that is activated by binding cAMP. Seems not to activate RAB3A. Involved in cAMP-dependent, PKA-independent exocytosis through interaction with RIMS2.[UniProtKB/Swiss-Prot Function]