

Product datasheet for MR217454

2310035C23Rik (NM_173187) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2310035C23Rik (NM_173187) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	2310035C23Rik
Synonyms:	6430401N10; Kiaa1468; mKIAA1468; Relch
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217454 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGATGGCGCCCGGAGGTGGTGGCAGTGGTAGCGGAGTAAATCCTTTCCTCAGTGATTCGGATG
AGGACGACGACGAGGTAGCGGCAACCGAGGACCGCGGGCAGGACTTCGGCTGGGTGCCGGGTCCGGCT
AGATCCTGGTTCTGCAGGCTCCCTGTGCCACAGGACCCATGGCCCTGGGAAGCAGCGCGCGCCGGGG
CTCGCTGTGGAGATGTCCGCCCGCCCGGGCTCTGGGGGCAGCGGGGAGACCCCTGCCGATTGTCAA
TCGATGCCATCGCCGCTCAGCTGTTGCGCGATCAATACTTGTGACCGCCCTGGAGCTGCACACCGAGCT
GTTGGAGAGCGGCGCGAGCTACCACGGCTGCGCGATTACTTCTCCAATCCTGGCAACTTCGAGAGGCAG
AGTGGGACCCCCAGGGATGGGGGCGCCGGGATCCCTGGCGCCTCCATCGTCGGAGGCCTGGAGGTC
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AGACTTTGCAAGATATTCAGATGATGGTAACAGGGAAACAGATGAAAGAGTGGCGGTCTGGAGTTTGAA
CTACGAAAGCCAAGGAGACCATTACGGCCCTCCGAGCCAACCTAACAAAGGCTGCAGAACATGAAGTTC
CTTTACAGGAACGAAAAAATTATAAATCAAGTCTGAAATTCAGGAGCCAATCAAACCTCTTGAAAAAG
AGCTCTCAACTTCTAGTCAATGAGTTTTTGTAAAGAATAACTACAAGCTTACATCAATAACCTTTTCA
GATGAAAATGATGATCAGGATTTTGAATATGGGATGATGTAGGATTAACATTCCCAAACCCCGAGACT
TGTTACAACCTTACCAGACTTTGGAAATCATCAAGTGAAGTGGGAAAGATCTTGTGGATGTGGCCAGTGG
AGTAGATGAAGATGAATTAGAGGCTCTTACACCAATTTTAGGCAACGTCCTCCAACCTTGATACTCCC
CTGCCTATAGAGAACACCTTGCTAGTACAGAAATTAGAAGATAAAATAGTTTATTAATAATGAAAAAT
GGTCATTGATGGAGCAAATCAGAAGGCTTGAAAGTGAGATGGACATCCTCAAAGCTGAACACTTTGCCAC
CCCAGCAGTTGGTGATTCTGTTCCAGCCTCCTTGGTTGGTCTTCCAAAAGGATTCTGAAGACAATAGA
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CTGATTCCTTTATCCTAAAGAGAATTCGTGAGTTCTTCCCGGAAGGAAAGAGAAGAGCTGCCACC
TTCTTCTGTATCAAATAAAACCAGCTCCATTTGATCAGCCCAATAGGAAATTGTCACCTGCTTCCAC



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CAAGCACTACTCTCTTTTTGTCGAATGTCAGCAGATAGTCGGTTAGGATCAGAGGTGTCTAGGATTGCAG
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GGCCTAATGCAGAACCCCGTTCAGAGATGAGTTTGTATACCACATTTACATAAATTAGCCTTGGTGAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR217454 protein sequence
 Red=Cloning site Green=Tags(s)

MAAMAPGGGGSGSGVNPFLSDSDEDDDEVAATEDRRAGRLRGAGVGLDPGSAGSLSPQDPMALGSSARPG
 LAVEMSAAPALGGSETPARLSIDAIAAQLLRDQYLLTALELHTELESGRELPRLRDYFSNPGNFERQ
 SGTTPPGMGAPGIPGASIVGGAGGREPSTTSGGGQLNRAGSISTLDSLDFARYSDDGNRETDERVALEFE
 LRKAKETIQALRANLTKAAEHEVPLQERKNYKSSPEIQEPIKPLEKRALNFLVNEFLKNNYKLTISITFS
 DENDDQDFELWDDVGLNIPKPPDLLQLYRDFGNHQVTGKDLVDVASGVDEDELEALTPILGNVPPTLDTP
 LPIENTLLVQKLEDKISLLNNEKWSLMEQIRRLSEMDILKAEHFATPAVGDSVQPSLVWSSQKDSEDNR
 QSPAVNSSDQEKTKDVHLEIPDAADSFIPKENS SSGSFPRKEREELPPSSVSNKTTLHFDQPNRKLSPAFH
 QALLSFCRMSADSRLGSEVSRIADSEKSVMLMLGRCLPHIVPNVLLAKREELIPLILCTACLHPEPKERD
 QLLHLILFNLIKRPDDEQRQMILTGCVAFARHVGPTRVEAELLPQCWEQINHKYPERLLVAESCGALAPY
 LPKEIRSSLVLSMLQQLMEDKADLVREAVIKSLGIMGYIDDPKYQQGFELLLSALGDPSEVVSATH
 QVFLPAYAAWTTTELGNLQSHLIPDLLNIEKLLREGEHGLDEHKLHMYLSALQSLIPSLFALVLQNAFSS
 SKAKLHGEVPHIEVTRFPRPMSPLQDVSTIIGSREQLAVLLQLYDYQLEHEGTTGWESLLWVNVQLLPQL
 IEIVGKINVTSTACVHEFSRFFWRLCRTFGKIFNTKVKPQFQEILRLSEENIDSSAGNGVLTATVPIY
 ATGVLTCYIQEEDRKL LVGFLEDVMTLLSLSHAPLDSLKASFVELGANPAYHELLLTVLWYGVVHTSALV
 RCTAARMFELLVKGVNETLVAQRVVPALITLSSDPEISVRIATIPAFGTIMETVIQRELLERVKMQLASF
 LEDPQYQDQSHLHTEVIRTFGRVGPNAEPRFRDEFVIPHHLKALVNNLQIVDSKKLDIATHLFEAYSAL
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 KTKFLNKMQLTTSGAMLANVFQRKK

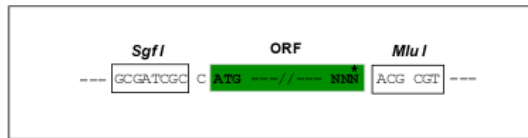
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



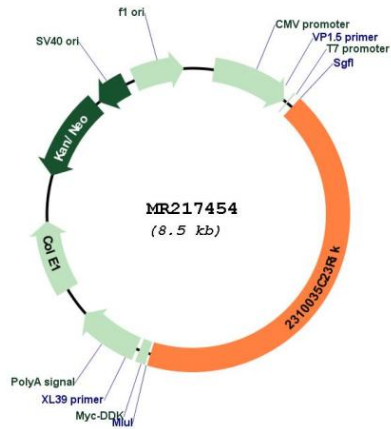
* The last codon before the Stop codon of the ORF

ACCN: NM_173187

ORF Size: 3651 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_173187.1 , NM_173187.2 , NM_173187.3 , NP_775279.2
RefSeq Size:	5424 bp
RefSeq ORF:	3651 bp
Locus ID:	227446
UniProt ID:	Q148V7
Cytogenetics:	1
MW:	134.6 kDa
Gene Summary:	Regulates intracellular cholesterol distribution from recycling endosomes to the trans-Golgi network through interactions with RAB11 and OSBP. Functions in membrane tethering and promotes OSBP-mediated cholesterol transfer between RAB11-bound recycling endosomes and OSBP-bound Golgi-like membranes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217454