

Product datasheet for MR218718

2310035C23Rik (NM_029349) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2310035C23Rik (NM_029349) 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:	>MR218718 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCGGCGATGGCGCCCGGAGGTGGTGGCAGTGGTAGCGGAGTAAATCCTTTCCTCAGTGATTCGGATG
AGGACGACGACGAGGTAGCGGCAACCGAGGACCGCGGGCAGGACTTCGGCTGGGTGCCGGGTCCGGCT
AGATCCTGGTTCTGCAGGCTCCCTGTGCCACAGGACCCATGGCCCTGGGAAGCAGCGCGCGGCCGGGG
CTCGCTGTGGAGATGTCCGCCGCCCGGGCTCTGGGGGCGAGCGGGGAGACCCCTGCCGATTGTCAA
TCGATGCCATCGCCGCTCAGCTGTTGCGCGATCAATACTTGTGACCGCCCTGGAGCTGCACACCGAGCT
GTTGGAGAGCGGCGCGAGCTACCACGGCTGCGCGATTACTTCTCCAATCCTGGCAACTTCGAGAGGCGAG
AGTGGGACCCCCCAGGGATGGGGGCGCCGGGATCCCTGGCGCCTCCATCGTCGGAGGCGCTGGAGGTC
GGGAACCGAGTACGACGTCGGGCGGAGGACAGCTCAATCGAGCTGGGAGCATTAGTACTCTTGACTCATT
AGACTTTGCAAGATATTCAGATGATGGTAACAGGGAAACAGATGAAAGAGTGGCGGAACATGAAGTTCCT
TTACAGGAACGAAAAATATAAATCAAGTCTGAAATTCAGGAGCCAATCAAACCTCTTGAAAAGAGAG
CTCTCAACTTCTAGTCAATGAGTTTTGTAAAGAATAACTACAAGCTTACATCAATAACCTTTTCAGA
TGAAAAATGATGATCAGGATTTTGAATTATGGGATGATGTAGGATTAACATTCCCAAACCCAGACTTG
TTACAACCTTACCGAGACTTTGGAATCATCAAGTGACTGGGAAAGATCTGTGGATGTGGCCAGTGGG
TAGATGAAGATGAATTAGAGGCTTTACACCAATTTTAGGCAACGTCCTCCAACCTTGATACTCCCT
GCCTATAGAGAACACCTTGCTAGTACAGAAATAGAAGATAAAATTAGTTTATTAATAATGAAAAATGG
TCATTGATGGAGCAAATCAGAAGGCTTGAAAGTGAGATGGACATCCTCAAAGCTGAACACTTTGCCACCC
CAGCAGTTGGTATTCTGTTTCAGCCTTCTTGGTTTGGTCTTCCCAAAGGATTCTGAAGACAATAGACA
AAGCCAGCTGTAATAGTTTCAGACCAGGAAAAACCAAGGATGTTTCATCTTGAAATACCAGATGCAGCT
GATTCCTTTATTCCTAAAGAGAATTCGTCAGGTTCTTTCCCGAGGAAGGAAAGAGAAGAGCTGCCACCTT
CTTCTGTATCAAATAAACACGCTCCATTTTCGATCAGCCCAATAGGAAATGTACCTGCTTTCCACCA
AGCACTACTCTTTTTGTCGAATGTCAGCAGATAGTCGGTTAGGATCAGAGGTGCTAGGATTGCAGAC



AGTAAAAAAGTGTATGTTAATGCTGGGACGCTGCCTGCCACACATTGTTCTAATGTGCTGTTGGCAA
AAAGAGAGGAGTTGATTCCTCTCATATTGTGTACAGCATGCCTGCACCCTGAACCTAAAGAAAGAGACCA
GCTCCTCCATATCCTCTTCAACCTGATCAAGAGGCCAGATGATGAGCAAAGGCAAATGATACTGACAGGA
TGTGTGGCATTTCACGTCATGTTGGACCAACAGTGTGGAGGCTGAACTTTTACCTCAGTGTGGGAAC
AGATTAATCACAATATCCAGAAAGACGACTGCTCGTGGCAGAGTCTGTGGAGCATTGGCACCTTACCT
TCCTAAAGAAATCCGTAGTTCCTGGTTCTTTCAATGTTGCAACAGATGTTAATGGAAGATAAGGCTGAT
TTGGTAAGAGAAGCTGTGATTAAGCCTGGGTATCATTATGGGCTACATTGATGATCCTGACAAATATC
AACAGGGCTTTGAATTGTTGCTCTGCCTGGGTGATCCCTCAGAAAGAGTTGTTAGTGAACACACCA
AGTATTTTTACCAGCCTATGCTGCCTGGACAACCTGAACCTTGAAAACCTTACAGTCTCATCTTATACCTACA
CTACTGAACAAGATTGAAAAGCTTCTCAGGGAAGGAGAGCACGGGCTGGACGAACACAAGCTCCACATGT
ATCTTTCTGCCTTGACAGTCTTATCCCATCTCTTTGCAATTAGTGCTACAGAACGCACCTTTCTCCAG
CAAAGCCAAGCTGCATGGTGAAGTACCACATATTGAAGTACTAGGTTCCCTCGGCTATGTCACCTCTG
CAAGATGTGTCTACTATTATTGGAAGTCGTGAGCAATTGGCAGTGTACTACAACCTTATGATTACCAAC
TGAACATGAAGGCACAACAGGCTGGGAGAGTTTACTCTGGGTTGCAATCAATTGTTGCCACAGCTTAT
AGAAATAGTGGGCAAAATTAATGTAACCTCAACTGCCTGTGTCCATGAATTCTCCAGATTTTTCTGGCGT
CTTTGCCGGACATTTGGCAAAATTTTTACAACACTAAGGTAAAACCCAGTTCCAGAGATTTTAAAGAC
TCTCTGAAGAAAATATTGATTCCTCAGCAGGAAATGGGGTCTCACTAAAGCTACTGTCCCATTTATGC
AACAGGAGTCTCACGTGTACATTGAGGAAGAGGACCGAAAGCTGTAGTTGGCTTCTTGGAAAGATGTG
ATGACACTGCTTTCAGTGTCTATGCTCCTTTCAGACGCTGAAGGCTTCTTTTGGAACTTGGTGCAA
ACCCGGCTATCATGAGCTGTGCTAAGTCTGTGGTATGGTGTGTTGTCATACTTCTGCACCTGTGCA
GTGTACTGCTGCTAGGATGTTTGAGCTGTTGGTGAAGGGGTGAATGAGACTCTGGTAGCTCAGAGGGTT
GTTCTGCTCTCATTACTCTCTCCAGTGACCCTGAAATCTCTGTCAGGATTGCTACAATCCAGCATTG
GCACTATTATGGAAACAGTTATTTCAGAGAGAGTTGCTAGAAAGAGTGAAGATGCAGTTGGCTTCTTCT
GGAAGACCCTCAGTACCAAGACCAGCATTCTTTGCATACAGAGGTCATCCGAACATTTGGCAGAGTCGGG
CCTAATGCAGAACCCCGTTCCGAGATGAGTTTGTATACCACATTTACATAAATTAGCCTTGGTGAACA
ACTTACAAATTGTAGATTCGAAAAAAGTGGACATTGCGACTCATCTTTTGAAGCCTACAGTGCACCTCTC
CTGTTGTTTCATTTTCAGAGGATTTAATGGTAAATCACTTCTTACCTGGCCTCAGATGTTTACGGACTGAC
ATGGAACATCTGTCTCCAGAACATGAGGTTATTTTAAAGTCCATGATAAAAAGATGTGAACAAAAAGTAG
AAAACAAGACTGTCCAAGAGCCTCCAGGCTCAATGTCAATTGCTGCAAGTTTGTGAGTGAAGACACAAA
GACCAAGTTTTTGAACAAAATGGGCCAGTTGACAACATCAGGTGCCATGCTGGCCAATGTGTTTCAGAGA
AAGAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218718 protein sequence
 Red=Cloning site Green=Tags(s)

MAAMAPGGGGSGSGVNPFLSDSDEDDDEVAATEDRRAGRLRGAGVGLDPGSAGSLSPQDPMALGSSARPG
 LAVEMSAAPALGGSETPARLSIDAIAAQLLRDQYLLTALELHTELESGRELPRLRDYFSNPGNFERQ
 SGTTPPGMGAPGIPGASIVGGAGGREPSTTSGGGQLNRAGSISTLDSLDFARYSDDGNRETDERVAEHEVP
 LQERKNYKSSPEIQEPIKPLEKRALNFLVNEFLKNNYKLTSTITFSDENDDQDFELWDDVGLNIPKPPDL
 LQLYRDFGNHQVTGKDLVDVASGVDEDELEALTPILGNVPTLDTPLPIENTLLVQKLEDKISLLNNEKW
 SLMEQIRRLSEMDILKAEHFATPAVGDVSVQPSLVWSSQKDESNRQSPAVNSSDQEKTKDVHLEIPDAA
 DSFIPKENS SSGSFPRKEREELPPSSVSNKTTLHFDQPNRKLSPAFHQALLSFCRMSADSRLGSEVSRIAD
 SEKSVMLMLGRCLPHIVPNVLLAKREELIPLILCTACLHPEPKERDQLLHILFNLIKRPDDEQRQMILTG
 CVA FARHVGPTRVEAELLPQCWEQINHKYPERRLLVAESCGALAPYLPEIRSSLVLSMLQQLMEDKAD
 LVREAVIKSLGIIMGYIDDPKYQQGFELLLSALGDPSEVVVSATHQVFLPAYAAWTTTELGNLQSHLIPT
 LLNKIEKLLREGEHGLDEHKLHMYLSALQSLIPSLFALVLQNAPFSSKAKLHGEVPHIEVTRFRPMSPL
 QDVSTIIGSREQLAVLLQLYDYQLEHEGTTGWESLLWVYNQLLPQLIEIVGKINVTSTACVHEFSRFFWR
 LCRTFGKIFTNTKVQPQFEILRLSEENIDSSAGNGVLTAKATVPIYATGVLTCYIQEEDRKL LVGFLEDV
 MTL LSLSHAPLDSLKASFVELGANPAYHELLLTVLWYGVVHTSALVRCTAARMFELLVKGVNETLVAQRV
 VPALITLSSDPEISVRIATIPAFGTIMETVIQRELLERVKMQLASFLEDPPYQDQHSLHTEVIRTFGRVG
 PNAEPRFRDEFVIPHLHLKALVNNLQIVDSKLDIATHLFEAYSALSCCFI SEDLMVNHFLPGLRCLRTD
 MEHLSPEHEVILSSMIKECEQKVENKT VQEPGMSIAASLVSEDTKTKFLNKMGLTTSGAMLANVFQR
 KK

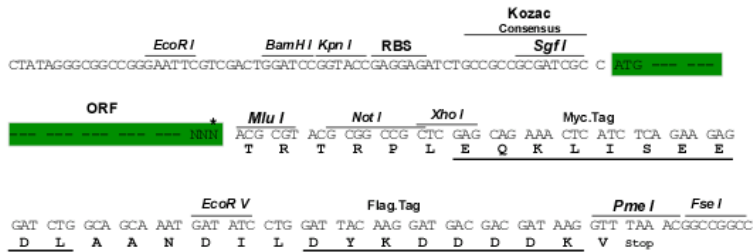
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



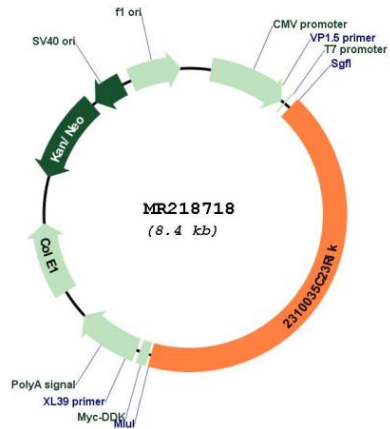
* The last codon before the Stop codon of the ORF

ACCN: NM_029349

ORF Size: 3579 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_029349.1 , NP_083625.1
RefSeq Size:	5352 bp
RefSeq ORF:	3579 bp
Locus ID:	227446
UniProt ID:	Q148V7
Cytogenetics:	1
MW:	131.9 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 MR218718