

## Product datasheet for MR217641

### Rab11fip3 (NM\_001162869) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rab11fip3 (NM_001162869) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab11fip3
Synonyms:	Cart1; D030060O14Rik; mKIAA0665; Rab11-FIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217641 representing NM_001162869, <b>codon optimized</b> . <b>Due to the complexity of NM_001162869, the ORF clone is codon optimized for mammalian Expression.</b> <b>The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.</b>

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGAGCTTTGTCAGCCTACAAGCCTGTGATCATGATCAACCGCCAGTGGGCCGAGCGGGGAGTGA  
TGGGGTTGGTGGGACCCGACGCTCCCGGGGTTGGTCAGAGGAACCCGAAGAACACGCTCAACTGCAGCG  
CTGGCCAGAGGGTCCAAACGCTCCTATCTGCTGGCCTGAGGAGGTGGAGGAACCTCATGCCCCCTCCCGA  
TGGGCGAAGGAACCAACGCGCCAAGATGTTCTCCAGGAGCCAGATGAGTCACTGCTCACTTGGCTGAAG  
AGTTGGAGGAGAGCGACTCTCCACGCTGCTGGCCTCAAGAGCCAGATACACCTTGTACCTTGCCAAAGGA  
ACTCGAAGAGCCTGATGCACCTCGCTGTCTCCACAGGAGCCAGACACACCATGCTATCTCGAAAAGAA  
CTGGAGGAGCCAAATATCCACGGTGTGGCCCCAGGAGCCTGATGTCCTTGTACCTTGCCAAAGGAGC  
TCGAGGAACCTGATGCCCCAGATGTTGGCCCCAGGAACAGATGCCTTCTGTCATCTCCTTAAGGAAGT  
GGAGGAGCCGACGCCCTGAGGTGTTGGCTGCAGGGTCTGACGCGCCTTGTATCTTGCCAAAGAACTG  
GAGGACTTGGACTCCCCAAGATGCTGGCCTCAAGAGCCTGATGAATCATGCCACCTTGCCAAAGAACTGG  
AAGAACCAGATGCCCCCTGCCATTTGGCCAAAGAGCTGGAAGAGCCCGATGCGCCTCGATGTTGGCCACA  
AGAGCCAGATGTACCTTGTCTTCTTGCAAAAGAAATGGGAGGAGAGTATGCCCCCTGTCTCTTGACAGAA  
GAGCTCGAAGAGCCAGATGCTTCTCACTGCTGGCCACAAGAATCCGAGGCCCTTGTCTCCTTGCAAAGG  
AGTTGGAAGAACCTGACGCTAGCCACTCTGTCCCGAGGAGGCTGATACGGGCTGTCTGTCTGCAAAGA  
GCCAGAGGAGCCTGACGCTCTCCACCTGTGGCAGGGGTGCCTGATGCCCATGTTTGTGTTAAGGAG  
CCAGAAGAAGCGGATGCCTTGCCTGCTGCTGGCCGAGGAGAGCGAGGAACAGACGCTCTCAATCCTC



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CTTGTTTTGGGCTAATGAGCCCGATGAGCCTGATCCCTCCAGATGCTGGAGCGAGGAGCCTCAGGTGCT  
CTGTCTTTGGCCTGAGGAGCAGAATACCAAAAGATGTTGGCAGGAAGAGCCCGATGCTCCGTGCTTCTGG  
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GCAGTTGGCCAGAAGAATTGAAGACTGCTGCCAACACGAGGATTGCCTCTGGAGCCTCTGTTGGCCGA  
CGGAGAGCTGCTCCAGGCATGTCGGGGGCCACCATCCGATCCAGGTCCCCTCTCTCTTTGCCTTCTGAA  
CCCGAAACAGCCAGGAGGAGGGTGTCCGGCTTCGCGCTGTCTTCGACGCTTTGGACCGAGACGGGGACG  
GATTCGTCGCGCATCGAGGACTTCATCCAGTTCGCAACCGTGTACGGCGCCGAACAAGTAAAGATCTTAC  
CCAGTACCTCGATCCGAGTGGCCTGGGAGTCATTTCAATTTGAGGATTTCTACCAAGGCATCGTGGCAATC  
CGCAACGGGGACCCTGACGGGCAACTGTATTAGTGAACCGGTGCAGGACGAGGAGACTCCTGCTTGGC  
CAGACGAGTTTGTACTTTGTGACATATGAGGCCAACGAAGTTACCGACTCTGCTTATATGGGGTCAGA  
GAGCACATACTCCGAGTGCAGAACCTTCACCGACGAGGACACAAGCACCTCGTCCATCTGAGTTGCAA  
CCTGAGGGGGATGTGGACAGCGTGGCGGTTCTGGCGTCCAAGCGAGTGTCTGGACACGATGGAGGAGC  
CCGACCATGGCGCTCTTTGCTTCTCCCGGTAGGAGCAGGCCCATCTCAGGCCGTGGTATGGTCAT  
TGGCTCAGAGGAACATTCGAAGACTATGGAGAAGGAAATGAGGCCGAACCTCAGTCCAGAAAACCTTGTGT  
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TTCTTACTGATGAGGCCCTTCGAGTTCTACTGTTCCAGTGTACAAAGCAGATTAACAGGCTTGAAGACCT  
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TACCTCCACCAGAGCGGAACCCTGACAATGGAGGCTCTTGAGGACCCACCACCTGAACCAGTAGAGTGCC  
CAGAGGAAGACATCGCTGATAAGGTGATCTTTCTGGAGCGCCGCTGAGTGAGCTGGAAAAGGATCCCGC  
GGCCGCTGGTGAGCAACATGGCAGACTGCGACAGGAGAATTTGCAACTGGTCCACCGGGCGAATGCACTC  
GAAGAGCAGCTCAAGGAGCAGGAGTTCGGGGCCAGGAAAAGGTGCTGGAAGAAACAAGGAAGCAGAAGG  
AACTGCTCTGTAAGATGGAACCGCGAGAAATCCATAGAAATCGAGAATCTGCAAGCACGCCTGCAGCAGCT  
GGACGAGGAGAACTCTGAGCTCCGATCCTGCACCTCCATGCCTGAAGGCCAACATCGAACGCCTTGAGGAG  
GAGAAGCAGAAGATGCTTGATGAAATTGAGGAGCTGACACAGAGGCTGTCCGAGGAACAGGAGAACAAAA  
GAAAAATGGGTGATCGGCTGTACACGAGCGCCATCAGTTCCAACGGGACAAAGAGGCCACTCAGGAGCT  
TATTGAGGACCTGCGGAAGCAGCTCGAGCACTTGCAGCTGCTGCGGCTGGAGGTGGAGCAGAGAAGAGGC  
AGAAGCAGTTCACTGGGACTCCAGGAGTAAATTTCTCGGGCACGGGAGAGTGAGCTCGAACAGGAGGTAA  
GGAGGCTGAAGCAGGACAACAGAAATCTGAAGGAGCAGAACGATGAACTTAACGGCCAGATCATCACCT  
CAGTATCCAGGGCGGAAGTCCCTCTTCTCCACCTTTTTTCCGAGAGCTTGGCTGCTGAAATCTCCAGC  
GTCAGCAGAGACGAATTGATGGAAGCCATCCAGAAGCAGGAGGAAATTAATTTCCGCTTCAGGATTATA  
TCGATAGGATCATCGTGGCAATTCTGGAGACTAATCCCTCTATATTGGAAGTCAAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR217641 representing NM\_001162869  
 Red=Cloning site Green=Tags(s)

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MELCQPTSLSDHDQPASGPQRGMVGLVGPDAPRGWSEEPPEEHAQLQRWPEGNAPICWPVEEVEEPHAPSR
WAKEPNAPRCSSQEPDESCHLAELEEESDPRCWPQEPDTPCHLAKELEEPDAPRCLPQEPDTPCYLAKE
LEENIPRCWPQEPDVPCHLAKELEEPDAPRCWPQEPDAFCHLLKEVEEPDALRCWLQGPDAPCHLAKEL
EDLDSRCWPQEPDESCHLAKELKEEPDAPCHLAKELEEPDAPRCWPQEPDVPCLLAKKWEESDAPCLL TE
ELEEPDALHCWPQSEAPCLLAKELKEEPDASHSCPEADTGCLSAKEPEEPDVSHLWQGVDPDAPCLLVKE
PEEADALHCCWPVEESEP DALNPPCFWANEPDEPDPSRCWSEEPQVLCVLPWEEQNTKRCWQEEPDA PCFW
PEDREEPVSVCLQFKEPEKPKVRSWPEELEDCCPTRGLPLEPLADGELLQACPGPPSDPGPALSPLPSE
PGTAQEEGARLRAVFDALDRDGDGFVRIEDFIQFATVYGAEQVKDLTQYLDPSGLGVISFEDFYQGIVAI
RNGDPPDGLYSVEPVQDEETPACADEDFDFTYEANEVDSAYMGSESTYSECETFTDEDTSTLVHPELQ
PEGDVDSAGGSGVPSECLDTMEEP DHGALLLPGRSRPHSQAVVMVIGSEEHFEDYGE GNEAELSPETLC
DGDGEDPAFLTPSSNPLASKLCDVLTDEAFEFYCSQCHKQINRLEDLSARLTDLEMNSPAKRLSSRKVAR
YLHQSGTLTMEALEDPPPEPVECP EEDIADKVIIFLERRVSELEKDSAAAGEQHGR LQENLQLVHRANAL
EEQLKEQEFRAQEKVLEETR KQKELLCKMEREKSI E IENLQARLQQLDEENSELRSCTPCKANIERLEE
EKQKMLDEIEELTQRLSEEQENKRKMGDRLSHERHQFQRDKEATQELIEDLRKQLEHLQLLRLEVEQRRG
RSSSLGLQEYNSRARESELEQEVRR LKQDNRNLKEQNDELNGQIITLSIQGAKSLFSTFSSES LA AEISS
VSRDELMEAIQKQEEINFRLQDYIDRIIVAILETNPSILEVK
```

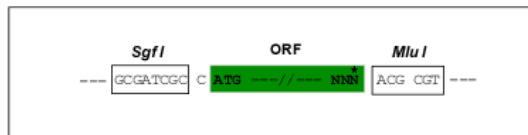
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

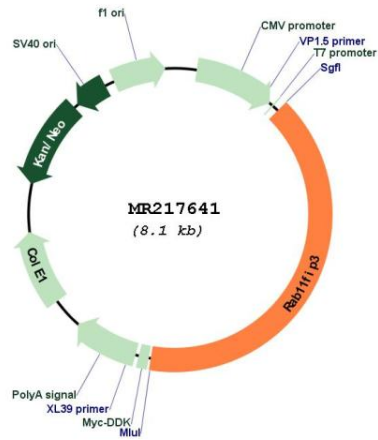
**ACCN:** NM\_001162869

**ORF Size:** 3276 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001162869.1, NP_001156341.1</u>
<b>RefSeq Size:</b>	5015 bp
<b>RefSeq ORF:</b>	3279 bp
<b>Locus ID:</b>	215445
<b>UniProt ID:</b>	<u>Q8CHD8</u>
<b>Cytogenetics:</b>	17 A3.3
<b>MW:</b>	123.7 kDa
<b>Gene Summary:</b>	Acts as a regulator of endocytic traffic by participating in membrane delivery. Required for the abscission step in cytokinesis, possibly by acting as an 'address tag' delivering recycling endosome membranes to the cleavage furrow during late cytokinesis (By similarity). Also required for the structural integrity of the endosomal recycling compartment during interphase. Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217641