

Product datasheet for RC203964

PLEKHF2 (NM_024613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEKHF2 (NM_024613) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLEKHF2
Synonyms:	EAPF; PHAFIN2; ZFYVE18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203964 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGGTGGATCGCTTGGCAAACAGTGAAGCAAATACTAGACGTATAAGTATAGTGGAAAAGTGTGGAGCAGCTGGTCAACCTTTAACTATACTGGACGAGTCTTATTGGAGAAGGAGATTGACTAAGTTGTGCAGAAAAAGCCAAAGCAAGGCAGTTTTCTGTGTTAATGATATTCTGTATATGGCAATATTGTCATCCAGAGAAAAATATAACAAACAACATATTATCCCCTGGAAAATGCACTATTGATTCCATCAAAGATGAGGAGACTTAAGGAATGGATGGCTAATCAAGACCACTAAATCTTTGCAGTTTATGCTGCCACTGCTACGGAGAAATCAGAATGGATGAATCATATAAATAAATGTGTTACTGATTTACTCTCCAAAAGTGGGAAGACACCCAGTAATGAACATGCTGCTGTCTGGGTTCTGACTCTGAGGCAACTGTATGTATGCGTTGTCAGAAAACAAAATTCACACCTGTTAATCGTCGCCACCATTGCCGCAAATGTGGTTTTGTTGTCTGTGGGCCCTGCTCTGAAAAGAGATTTCTTCTCCAGCCAGTCTCTAAGCCTGTGCGGATTTGTGACTTCTGCTATGACCTGCTTTCTGCTGGGACATGGCCACATGCCAGCCTGCTAGATCAGACTCTTACAGCCAGTCATTGAAGTCTCTTTAAATGATATGTCTGATGATGATGACGATGATGATAGCAGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203964 protein sequence
Red=Cloning site Green=Tags(s)

MVDRLANSEANTRRISIVENCFGAAGQPLTIPGRVLIGEGVLTCLCRKKPKARQFFLFNDILVYGNIVIQ
 KKKYNKQHIIPLENTVIDSIKDEGLRNGWLIKPTKSFAYVAATATEKSEWMNHINKCVTDLLSKSGKT
 PSNEHAAVVWPDEATVCMRCQKAKFTPVNRHHCRKCGFVVCPCSEKRFLLPSSQSKPVRICDFCYDL
 LSAGDMATCQPARSDSYSQSLKSPLNDMSDDDDDDSSD

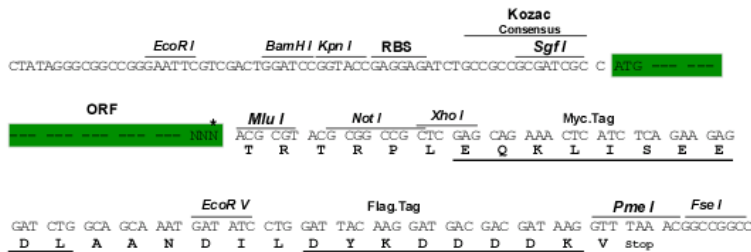
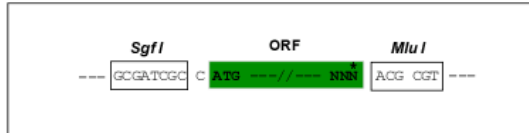
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6422_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_024613

ORF Size: 747 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024613.4](#)

RefSeq Size: 2977 bp

RefSeq ORF: 750 bp

Locus ID: 79666

UniProt ID: [Q9H8W4](#)

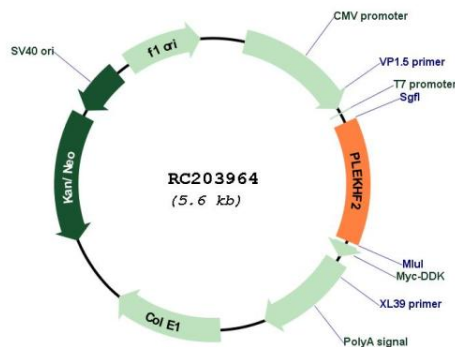
Cytogenetics: 8q22.1

Domains: FYVE, PH

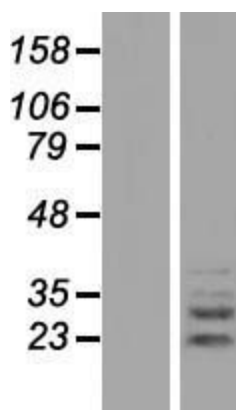
MW: 27.8 kDa

Gene Summary: May play a role in early endosome fusion upstream of RAB5, hence regulating receptor trafficking and fluid-phase transport. Enhances cellular sensitivity to TNF-induced apoptosis (PubMed:18288467).[UniProtKB/Swiss-Prot Function]

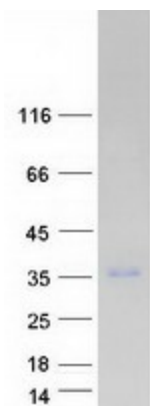
Product images:



Circular map for RC203964



Western blot validation of overexpression lysate (Cat# [LY411203]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203964 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PLEKHF2 protein (Cat# [TP303964]). The protein was produced from HEK293T cells transfected with PLEKHF2 cDNA clone (Cat# RC203964) using MegaTran 2.0 (Cat# [TT210002]).