

Product datasheet for **RG203964**

PLEKHF2 (NM_024613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEKHF2 (NM_024613) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLEKHF2
Synonyms:	EAPF; PHAFIN2; ZFYVE18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203964 representing NM_024613 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGATCGCTTGGCAAACAGTGAAGCAAATACTAGACGTATAAGTATAGTGGAAACTGTTTTGGAG
CAGCTGGTCAACCTTTAACTATACCTGGACGAGTTCTTATTGGAGAAGGAGATTGACTAAGTTGTGCAG
GAAAAAGCCAAAGCAAGGCAGTTTTCTTGTGTTAATGATATTCTGTATATGGCAATATTGTCATCCAG
AAGAAAAATATAACAAACAACATATTATCCCTGGAAATGTCAGTATTGATTCCATCAAAGATGAGG
GAGACTTAAGGAATGGATGGCTAATCAAGACCACTAAATCTTTGCAGTTTATGCTGCCACTGCTAC
GGAGAAATCAGAAATGGATGAATCATATAAATAAATGTGTTACTGATTTACTCTCCAAAAGTGGGAAGACA
CCCAGTAATGAACATGCTGCTGTCTGGGTTCTGACTCTGAGGCAACTGTATGTATGCGTTGTGAGAAAG
CAAAATTCACACCTGTTAATCGTCGCCACCATTGCCGCAATGTGGTTTTGTGTCTGTGGGCCCTGCTC
TGAAAAGAGATTTCTTCTCCAGCCAGTCCTCTAAGCCTGTGCGGATTTGTGACTTCTGCTATGACCTG
CTTTCTGCTGGGACATGGCCACATGCCAGCTGCTAGATCAGACTCTTACAGCCAGTCATTGAAGTCTC
CTTTAAATGATATGCTGATGATGATGACGATGATGATAGCAGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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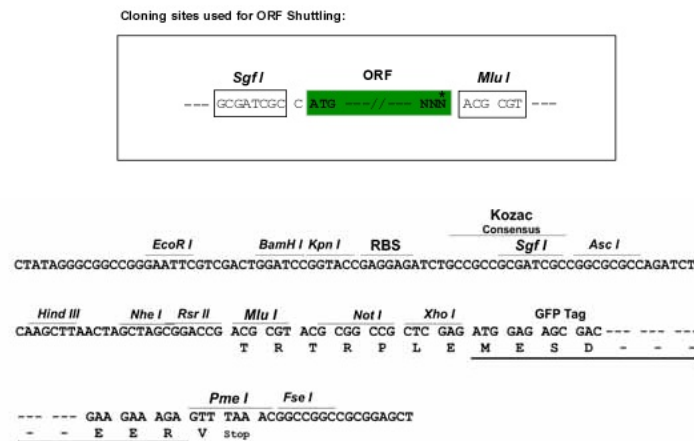
Protein Sequence: >RG203964 representing NM_024613
 Red=Cloning site Green=Tags(s)

MVDRLANSEANTRRISIVENCFGAAGQPLTIPGRVLIGEGVLTKLCRKKPKARQFFLFNDILVYGNIVIQ
 KKKYNQHIIPLENTIDSIDKDEGLRNGWLKPTKTSFAVYAATATEKSEWMNHINKCVTDLLSKSGKT
 PSNEHAAVWVPDSEATVCMRCQKAKFTPNRRHHCRKCGFVVCGPCSEKRFLLPSSQSSKPVRICDFCYDL
 LSAGDMATCQPARSDSYSQSLKSPLNDMSDDDDDDSSD

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: [NM_024613.4](#)

RefSeq Size: 2905 bp

RefSeq ORF: 750 bp

Locus ID: 79666

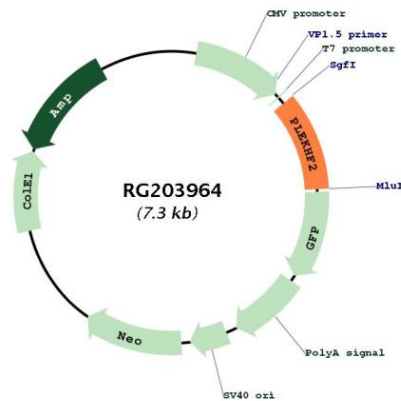
UniProt ID: [Q9H8W4](#)

Cytogenetics: 8q22.1

Domains: FYVE, PH

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 RG203964