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Product datasheet for RC209861

PLEKHA7 (NM_175058) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEKHA7 (NM_175058) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLEKHA7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>RC209861 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCGACGGTCGGGCGGGACACTTTACCTGAGCATTGGTCCTACGGGGTGTGCCGGGATGGCC
GCGTCTTCTTCATCAATGACCAGCTCCGCTGCACGACCTGGCTGCATCCGCGCACCGGGGAGCCCGTCAA
CTCGGGCCACATGATCCGCTCAGACCTGCCCCGCGGCTGGGAGGAGGGCTTCACGGAGGAGGGCGCCAGC
TACTTCATCGACCATAACCAGCAGACCACAGCATTCAGGCATCCTGTGACGGGACAGTTTTCTCCAGAAA
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TGTGCTTGCTGATTACTGCTTATTTTACTATAAAGACAGCCGAGAAGAAGCGGTCCTCGGGAGCATCCCC
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GCACAGGTGCTGTCTCGATCGTCACTGAAGAGGGATATGGAGAAGGTGGAGCGGCAGGCTGTCCCCCAGG
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CACAGCGCCCATCTGCCTTGGCTCCCCAGAGTTCACCGACCAGGGCCGGAGCAGGAGCATGCTAGAGGTG

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CCCCGCTCCATCTCTGTGCCTCCATCTCCCTCGGACATCCCTCCCCCAGGACCCCCAAGGGTCTTCCCAC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209861 protein sequence
Red=Cloning site Green=Tags(s)

MAAATVGRDTLPEHWSYGVCRDGRVFFINDQLRCTTWLHPRTGEPVNSGHMIRSDLPRGWEEGFTEEGAS
YFIDHNQQTTAFRHPVTGQFSPENSEFILQEEPNPHMSKQDRNQRPSSMVSETSTAGTASTLEAKPGPKI
IKSSSKVHSFGKRDQAIRRNPNVPVVVRGWLHKQDSSGMRLWKRRWFVLADYCLFYYKDSREEAVLGSIP
LPSYVISPVAPEDRISRKYSFKAVHTGMRALIYNSSTAGSQAEQSGMRTYYFSADTQEDMNAWVRAMNQA
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PLEGKRDRSKARSPYSPAEEDALFMDLPTGPRGQQAQPQRAEKNGMLPASYGPGEQNGTGGYQRAFPPRT
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C

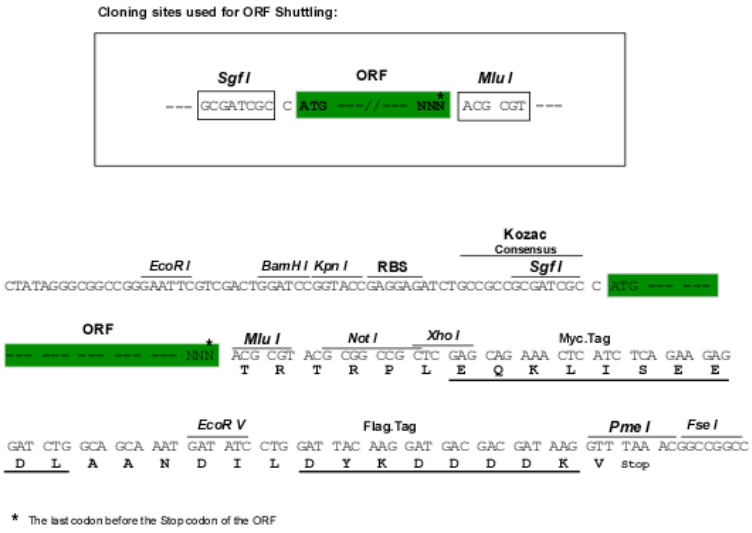
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

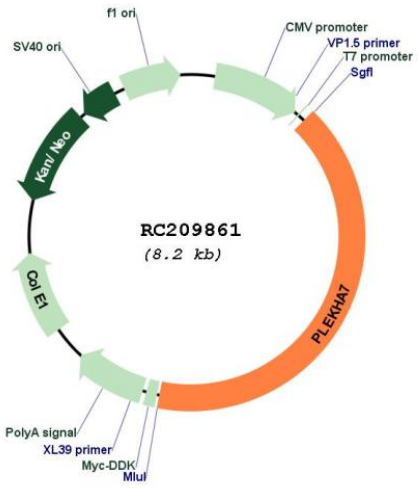
https://cdn.origene.com/chromatograms/mk6220_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_175058

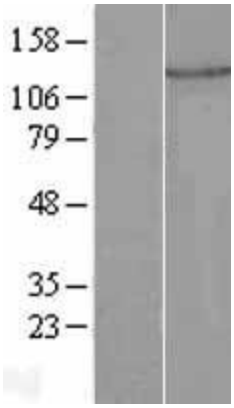
ORF Size: 3363 bp

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_175058.3, NP_778228.2
RefSeq Size:	4820 bp
RefSeq ORF:	3366 bp
Locus ID:	144100
UniProt ID:	Q6IQ23
Cytogenetics:	11p15.2-p15.1
MW:	127.1 kDa
Gene Summary:	Required for zonula adherens biogenesis and maintenance. Acts via its interaction with KIAA1543/Nezha, which anchors microtubules at their minus-ends to zonula adherens, leading to the recruitment of KIFC3 kinesin to the junctional site.[UniProtKB/Swiss-Prot Function]

Product images:



Western blot validation of overexpression lysate (Cat# [LY406299]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209861 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).