OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG209861

PLEKHA7 (NM_175058) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEKHA7 (NM_175058) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLEKHA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209861 representing NM_175058 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGCGGCGACGGTCGGGCGGGACACTTTACCTGAGCATTGGTCCTACGGGGTGTGCCGGGATGGCC GCGTCTTCTTCATCAATGACCAGCTCCGCTGCACGACCTGGCTGCATCCGCGCACCGGGGAGCCCGTCAA CTCGGGCCACATGATCCGCTCAGACCTGCCCCGCGGCTGGGAGGAGGGCTTCACGGAGGAGGGCGCCAGC TACTTCATCGACCATAACCAGCAGACCACAGCATTCAGGCATCCTGTGACGGGACAGTTTTCTCCAGAAA ATAGTGAATTCATTCTTCAAGAAGAGCCGAATCCACATATGTCGAAGCAAGACAGAAACCAAAGACCGTC CAGCATGGTCAGTGAAACATCCACGGCTGGGACCGCCTCCACCCTGGAGGCCAAGCCTGGACCCAAGATC ATAAAGTCCAGCAGTAAAGTCCACAGCTTTGGGAAGAGAGACCAGGCCATTCGGAGGAACCCCAATGTTC CCGTGGTGGTGAGGGGCTGGCTGCACAAGCAGGACAGTTCTGGGATGAGGCTGTGGAAAAGGAGGTGGTT TGTGCTTGCTGATTACTGCTTATTTTACTATAAAGACAGCCGAGAAGAAGCGGTCCTCGGGAGCATCCCC TTGCCCAGCTACGTGATCTCTCCTGTGGCCCCTGAGGATCGCATAAGCCGCAAATATTCCTTTAAGGCTG TGCACACGGGGATGCGAGCGCTCATCTATAACAGCTCCACAGCGGGCTCTCAGGCCGAGCAGTCAGGCAT GAGGACCTACTACTTCAGTGCCGACACCCAGGAGGACATGAACGCTTGGGTCAGGGCCATGAACCAGGCT GCACAGGTGCTGTCTCGATCGTCACTGAAGAGGGATATGGAGAAGGTGGAGCGGCAGGCTGTCCCCCAGG CCAACCACACAGAGTCCTGTCACGAATGTGGCCGGGTGGGACCCGGACATACGAGAGATTGTCCTCATCG TGGCCATGATGACATTGTCAACTTCGAGAGGCAGGAGCAGGAGGGAGAGCAGTACCGTTCCCAGAGGGAC CCACTGGAGGGCAAGCGGGACCGGAGCAAGGCCAGGTCTCCGTACTCGCCAGCCGAGGAGGATGCCTTGT TTATGGATTTACCCACTGGCCCAAGAGGCCAGCAGGCACAGCCCCAACGGGCAGAGAAGAATGGAATGCT GCCTGCCTCATATGGCCCAGGAGAACAGAATGGGACTGGTGGGTACCAGCGGGCCTTTCCTCCCAGGACC AACCCTGAAAAACACAGCCAAAGGAAGAGCAATCTGGCCCAGGTGGAGCACTGGGCAAGGGCCCAGAAAG GGGATAGCAGGAGTCTTCCCTTGGACCAGACGCTTCCTCGCCAGGGTCCTGGCCAATCCCTGTCCTTCCC AGAAAACTACCAGACTCTTCCCAAGAGCACCCGACACCCCTCGGGGGGCTCCTCGCCACCTCCCCGAAAC CTGCCAAGTGACTACAAGTATGCGCAGGACCGAGCCAGCCACCTGAAGATGTCGAGTGAAGAGCGCCGGG CGCACCGGGATGGCACCGTGTGGCAGCTCTACGAGTGGCAGCAGCGCCAGCAGTTCCGGCACGGCAGCCC

View online »

CACAGCGCCCATCTGCCTTGGCTCCCCAGAGTTCACCGACCAGGGCCGGAGCAGGAGCATGCTAGAGGTG
CCCCGCTCCATCTCTGTGCCTCCATCTCCCTCGGACATCCCTCCCCCAGGACCCCCAAGGGTCTTCCCAC
CCCGGCGGCCACACACACCAGCAGAGCGAGTCACAGTGAAGCCACCGGACCAGAGGAGGAGTGTGGACAT
CTCGCTGGGGGATTCTCCAAGGAGGGCACGGGGCCACGCTGTCAAGAACTCATCTCATGTGGACCGACGT
TCCATGCCCTCCATGGGTTACATGACCCACACCGTCAGCGCTCCCAGTTTACATGGAAAATCGGCTGATG
ATACCTACCTCCAGCTGAAGAAAGACCTGGAGTACCTGGATCTAAAGATGACAGGCCGGGACCTTCTCAA
GGATCGAAGTCTGAAGCCTGTGAAGATCGCTGAGAGCGACACTGACGTCAAACTGAGCATCTTCTGTGAA
CAAGACAGGGTCCTCCAGGACTTGGAAGACAAGATACGAGCCCTTAAAGAGAACAAAGACCAGCTAGAAT
CTGTGCTGGAGGTGTTGCACAGACAGATGGAGCAGTACCGAGACCAGCCCCAGCACTTGGAGAAGATTGC
CTACCAGCAGAAGTTGCTGCAGGAGGACCTTGTCCATATCCGAGCTGAGCTCTCCAGAGAGTCCACTGAG
ATGGAAAATGCTTGGAACGAATACCTGAAGTTGGAGAATGATGTGGAACAGCTGAAGCAGACCCTGCAGG
AGCAACACAGAAGAGCCTTTTTTTTCCAGGAGAAATCGCAGATACAGAAAGATCTATGGAGAATTGAAGA
TGTCACTGCAGGCCTGAGTGCAAATAAAGAGAACTTCAGAATTCTAGTGGAGTCAGTAAAAAATCCGGAG
AGAAAAACGGTGCCTTTGTTTCCTCACCCGCCTGTGCCTTCACTCTCAACTTCTGAGAGCAAGCCGCCCC
CACAGCCCAGTCCTCCCACCAGCCCTGTGCGGACCCCTCTGGAGGTTCGACTCTTCCCCCAGCTGCAAAC
CTACGTGCCGTACCGACCTCACCCACCCCAGCTGAGGAAAGTGACATCCCCCCTTCAGTCACCAACTAAG
GCGAAGCCCAAAGTTGAAGATGAAGCACCTCCCAGGCCCCCACTCCCCGAACTCTACAGCCCAGAGGACC
AGCCCCCGGCTGTGCCGCCTCTGCCAAGAGAGGCCACCATCATCCGGCACACATCTGTGCGGGGCCTCAA
GCGGCAGTCAGACGAGAGGAAGCGAGACCGGGAGCTGGGGCAGTGTGTGAATGGGGATTCCAGGGTGGAG
CCGCGGTCGTATGTCAGTGAGCCTGAGCTGGCGACCCTCAGCGGGGACATGGCCCAGCCCTCCCTAGGAC
TTGTGGGCCCTGAGAGCAGGTACCAGACGCTGCCAGGCAGAGGGCTCTCAGGGTCCACGTCAAGGCTCCA
GCAGTCGTCCACCATTGCTCCCTACGTCACACTCCGGAGGGGTCTCAATGCCGAAAGCAGCAAGGCGACC
TTCCCTAGACCTAAGAGTGCCTTGGAGCGCCTGTACTCAGGGGATCACCAGCGAGGCAAGATGAGTGCAG
AGGAGCAGCTGGAGCGCATGAAGCGACACCAGAAGGCCCTGGTCCGAGAGCGCAAGAGGACACTGGGCCA
AGGGGAGAGGACGGGCCTGCCCTCATCTCGCTACCTCAGCCGGCCGCTCCCTGGAGATCTTGGCTCAGTA
TGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

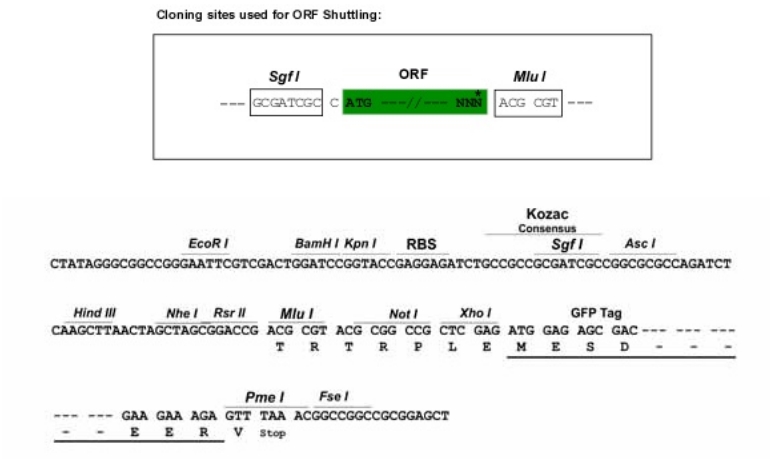
>RG209861 representing NM_175058
Red=Cloning site Green=Tags(s)

MAAATVGRDTLPEHWSYGVCRDGRVFFINDQLRCTTWLHPRTGEPVNSGHMIRSDLPRGWEEGFTEEGAS
YFIDHNQQTTAFRHPVTGQFSPENSEFILQEEPNPHMSKQDRNQRPSSMVSETSTAGTASTLEAKPGPKI
IKSSSKVHSFGKRDQAIRRNPNVPVVVRGWLHKQDSSGMRLWKRRWFVLADYCLFYYKDSREEAVLGSIP
LPSYVISPVAPEDRISRKYSFKAVHTGMRALIYNSSTAGSQAEQSGMRTYYFSADTQEDMNAWVRAMNQA
AQVLSRSSLKRDMEKVERQAVPQANHTESCHECGRVGPGHTRDCPHRGHDDIVNFERQEQEGEQYRSQRD
PLEGKRDRSKARSPYSPAEEDALFMDLPTGPRGQQAQPQRAEKNGMLPASYGPGEQNGTGGYQRAFPPRT
NPEKHSQRKSNLAQVEHWARAQKGDSRSLPLDQTLPRQGPGQSLSFPENYQTLPKSTRHPSGGSSPPPRN
LPSDYKYAQDRASHLKMSSEERRAHRDGTVWQLYEWQQRQQFRHGSPTAPICLGSPEFTDQGRSRSMLEV
PRSISVPPSPSDIPPPGPPRVFPPRRPHTPAERVTVKPPDQRRSVDISLGDSPRRARGHAVKNSSHVDRR
SMPSMGYMTHTVSAPSLHGKSADDTYLQLKKDLEYLDLKMTGRDLLKDRSLKPVKIAESDTDVKLSIFCE
QDRVLQDLEDKIRALKENKDQLESVLEVLHRQMEQYRDQPQHLEKIAYQQKLLQEDLVHIRAELSRESTE
MENAWNEYLKLENDVEQLKQTLQEQHRRAFFFQEKSQIQKDLWRIEDVTAGLSANKENFRILVESVKNPE
RKTVPLFPHPPVPSLSTSESKPPPQPSPPTSPVRTPLEVRLFPQLQTYVPYRPHPPQLRKVTSPLQSPTK
AKPKVEDEAPPRPPLPELYSPEDQPPAVPPLPREATIIRHTSVRGLKRQSDERKRDRELGQCVNGDSRVE
PRSYVSEPELATLSGDMAQPSLGLVGPESRYQTLPGRGLSGSTSRLQQSSTIAPYVTLRRGLNAESSKAT
FPRPKSALERLYSGDHQRGKMSAEEQLERMKRHQKALVRERKRTLGQGERTGLPSSRYLSRPLPGDLGSV
C

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

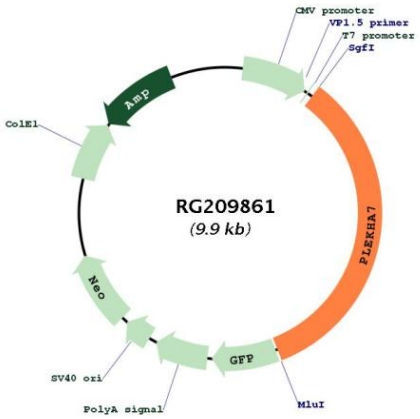
Cloning Scheme:



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:	4848 bp
RefSeq ORF:	3366 bp
Locus ID:	144100
UniProt ID:	Q6IQ23
Cytogenetics:	11p15.2-p15.1

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:



Circular map for RG209861