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 RC221926

PLEKHG5 (NM_001042664) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEKHG5 (NM_001042664) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLEKHG5
Synonyms:	CMTRIC; DSMA4; GEF720; Syx; Tech
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC221926 representing NM_001042664
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATTATGATGGGCATGTCCGCTTCGACCTTCCCCCACAAGGCTCTGTGCTGGCCCGGAACGTGTCCA
CCCGGTCATGCCCGCCGCGCACCAGCCCCGCAGTGGACTTGGAGGAGGAGGAGGAGGAGAGCTCTGTGGA
TGGCAAAGGGGACCGGAAGAGCACAGGCCTGAAACTCTCCAAGAAGAAAGCAAGGAGGAGACACACGGAT
GACCCAAGCAAGGAATGCTTCACTCTGAAATTTGACCTGAATGTGGACATTGAGACAGAGATCGTCCCAG
CCATGAAGAAGAAGTCACTGGGGGAGGTGCTGCTGCCTGTATTTGAAAGGAAGGGCATTGCGCTGGGCAA
AGTGGACATCTACCTGGACCAGTCCAACACACCCCTGTCCCTCACCTTCGAGGCCTACAGGTTCGGGGGA
CACTACCTTCGTGTCAAAGCCCCAGCCAAGCCTGGAGATGAGGGCAAGGTGGAGCAGGGCATGAAGGACT
CCAAGTCCCTGAGTTTGCCGATTCTGCGGCCAGCTGGGACCGGGCCCCCCGCCCTGGAGCGTGTGGACGC
CCAGAGCCGCCGGGAGAGCCTGGACATCTTGGCCCCTGGCCGCCGCCGCAAGAACATGTCGGAGTTCCTG
GGGGAGGCGAGCATCCCCGGGCAGGAGCCCCCCACGCCCTCCAGCTGCTCTCTGCCCAGCGGCAGCAGTG
GCAGCACCAACACTGGCGACAGCTGGAAGAACCGGGCGGCCAGTCGCTTCAGCGGCTTTTTCAGCTCCGG
CCCCAGCACCAGCGCCTTTGGCCGGGAGGTAGACAAGATGGAGCAGCTGGAGGGCAAGCTGCACACCTAC
AGCCTCTTCGGGCTGCCCAGGCTGCCCCGGGGGCTGCGCTTCGACCATGACTCCTGGGAGGAGGAGTACG
ATGAAGACGAGGATGAGGACAATGCCTGCCTGAGGCTGGAGGACAGCTGGCGGGAGCTCATTGATGGGCA
TGAGAAGCTGACCCGGCGGCAGTGCCACCAGCAGGAGGCGGTGTGGGAGCTGCTGCACACGGAGGCCTCC
TACATCAGGAAACTGCGGGTGATCATCAACCTGTTCCTGTGCTGCCTCCTGAACCTGCAAGAGTCAGGGC
TGCTGTGTGAGGTGGAGGCGGAGCGCCTGTTCAGCAACATCCCGGAGATCGCGCAGCTGCACCGCAGGCT
GTGGGCTAGCGTGATGGCGCCGGTGCTGGAGAAGGCGCGGCGCACGCGAGCGCTGCTACAGCCCGGGGAC
TTCCTCAAAGGCTTCAAGATGTTCGGCTCGCTCTTCAAGCCCTACATCCGCTACTGCATGGAGGAGGAGG
GCTGCATGGAGTACATGCGCGGCCTGCTGCGCGACAACGACCTCTTCCGGGCCTACATCACGTGGGCGGA
GAAGCACCCACAGTGCCAGAGGCTGAAGCTGAGCGACATGCTGGCCAAACCCCACCAGCGGCTCACCAAG
```

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

TACCCGCTGCTGCTCAAGTCGGTGCTGAGGAAGACCGAGGAGCCGCGCGCCAAGGAGGCCGTCGTCGCCA
TGATCGGCTCCGTGGAGCGCTTCATCCACCACGTGAACGCGTGCATGCGGCAGCGGCAGGAGCGGCAGCG
GCTGGCGGCCGTGGTGAGCCGCATCGACGCCTACGAGGTGGTGGAAAGCAGCAGCGACGAAGTGGACAAG
CTCCTGAAGGAATTTCTGCACCTGGACTTGACAGCGCCCATCCCTGGCGCCTCCCCGGAGGAGACGCGGC
AGCTGCTGCTGGAGGGGAGCCTGAGGATGAAGGAGGGGAAGGACAGCAAGATGGATGTGTACTGCTTCCT
CTTCACGGATCTGCTGTTGGTGACCAAAGCAGTGAAGAAGGCAGAGAGGACCAGGGTCATCAGGCCACCC
CTGCTCGTGGACAAGATTGTGTGCCGGGAGCTACGGGACCCTGGGTCCTTCCTCCTTATCTACCTGAATG
AGTTTCACAGTGCTGTAGGGGCCTACACGTTCCAGGCCAGTGGCCAGGCCTTGTGCCGTGGCTGGGTGGA
CACCATTTACAATGCCCAGAACCAGCTGCAACAGCTGCGTGCACAGGAGCCCCCAGGCAGTCAGCAGCCC
CTGCAGAGCCTGGAAGAGGAGGAGGATGAGCAGGAGGAGGAAGAGGAGGAGGAGGAGGAGGAGGAGGAAG
GCGAGGACAGTGGCACTTCAGCTGCCAGCTCCCCTACCATCATGCGGAAAAGCAGCGGCAGCCCCGACTC
TCAGCACTGTGCCTCAGATGGCTCCACGGAGACCCTGGCCATGGTTGTGGTAGAGCCTGGGGACACGCTG
TCCTCCCCCGAGTTCGACAGCGGTCCTTTCAGCTCCCAGTCTGATGAGACCTCTCTCAGCACCACTGCCT
CATCTGCCACGCCCACCAGTGAGCTGCTGCCCCTGGGTCCGGTGGACGGCCGCTCCTGCTCCATGGACTC
TGCCTACGGCACCCTCTCCCCAACCTCCTTACAAGACTTTGTGGCCCCAGGCCCAATGGCAGAGCTAGTG
CCTCGGGCCCCAGAGTCCCCACGAGTTCCTTCCCCTCCACCCTCGCCCCGTCTCCGCCGCCGCACCCCTG
TCCAGCTGTTGAGCTGCCCGCCCCACCTGCTCAAGTCTAAGTCCGAGGCCAGCCTCCTCCAGCTGCTGGC
AGGGGCTGGCACCCATGGGACACCCTCTGCCCCCAGCCGCAGCCTGTCAGAGCTCTGCCTGGCTGTTCCA
GCCCCAGGTATTAGGACTCAGGGCTCCCCTCAGGAAGCTGGGCCCAGCTGGGATTGCCGAGGGGCCCCTA
GCCCTGGCAGCGGTCCTGGGCTAGTCGGCTGCCTGGCCGGGGAACCTGCAGGCTCCCACAGGAAGAGGTG
TGGAGACCTGCCCTCGGGGGCCTCTCCCAGGGTCCAGCCTGAGCCCCCACCAGGGGTCTCTGCCCAGCAC
AGGAAGCTGACCCTGGCCCAGCTCTACCGAATCAGGACCACCCTGCTGCTTAACTCCACGCTCACTGCCT
CGGAGGTC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221926 representing NM_001042664
Red=Cloning site Green=Tags(s)

MHYDGHVRFDLPPQGSVLARNVSTRSCPPRTSPAVDLEEEEEESSVDGKGDRKSTGLKLSKKKARRRHTD
DPSKECFTLKFDLNVDIETEIVPAMKKKSLGEVLLPVFERKGIALGKVDIYLDQSNTPLSLTFEAYRFGG
HYLRVKAPAKPGDEGKVEQGMKDSKSLSLPILRPAGTGPPALERVDAQSRRESLDILAPGRRRKNMSEFL
GEASIPGQEPPTPSSCSLPSGSSGSTNTGDSWKNRAASRFSGFFSSGPSTSAFGREVDKMEQLEGKLHTY
SLFGLPRLPRGLRFDHDSWEEEYDEDEDEDNACLRLEDSWRELIDGHEKLTRRQCHQQEAVWELLHTEAS
YIRKLRVIINLFLCCLLNLQESGLLCEVEAERLFSNIPEIAQLHRRLWASVMAPVLEKARRTRALLQPGD
FLKGFKMFGSLFKPYIRYCMEEEGCMEYMRGLLRDNDLFRAYITWAEKHPQCQRLKLSDMLAKPHQRLTK
YPLLLKSVLRKTEEPRAKEAVVAMIGSVERFIHHVNACMRQRQERQRLAAVVSRIDAYEVVESSSDEVDK
LLKEFLHLDLTAPIPGASPEETRQLLLEGSLRMKEGKDSKMDVYCFLFTDLLLVTKAVKKAERTRVIRPP
LLVDKIVCRELRDPGSFLLIYLNEFHSAVGAYTFQASGQALCRGWVDTIYNAQNQLQQLRAQEPPGSQQP
LQSLEEEEDEQEEEEEEEEEEEEGEDSGTSAASSPTIMRKSSGSPDSQHCASDGSTETLAMVVVEPGDTL
SSPEFDSGPFSSQSDETSLSTTASSATPTSELLPLGPVDGRSCSMDSAYGTLSPTSLQDFVAPGPMAELV
PRAPESPRVPSPPPSPRLRRRTPVQLLSCPPHLLKSKSEASLLQLLAGAGTHGTPSAPSRSLSELCLAVP
APGIRTQGSPQEAGPSWDCRGAPSPGSGPGLVGCLAGEPAGSHRKRCGDLPSGASPRVQPEPPPGVSAQH
RKLTLAQLYRIRTTLLLNSTLTASEV

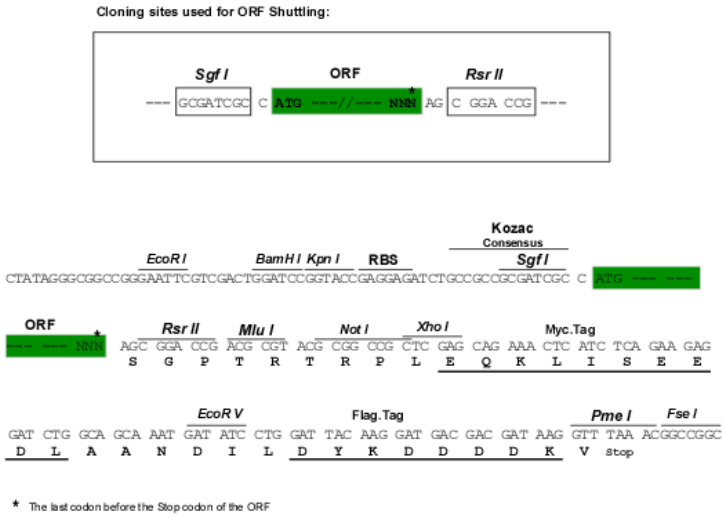
SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6624_c11.zip

Restriction Sites: SgfI-RsrII

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:

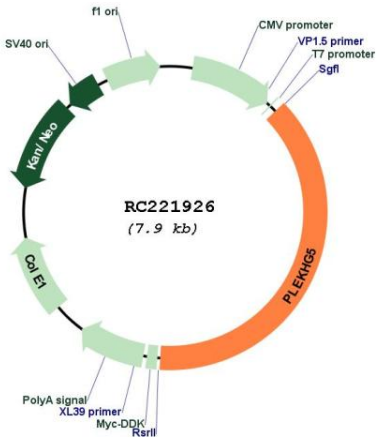


ACCN:	NM_001042664
ORF Size:	3018 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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_001042664.1, NP_001036129.1
RefSeq Size:	4715 bp

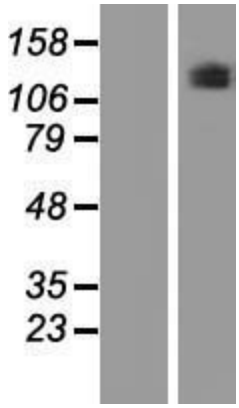
This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

RefSeq ORF:	3021 bp
Locus ID:	57449
UniProt ID:	O94827
Cytogenetics:	1p36.31
MW:	111.1 kDa
Gene Summary:	This gene encodes a protein that activates the nuclear factor kappa B (NFKB1) signaling pathway. Mutations in this gene are associated with autosomal recessive distal spinal muscular atrophy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC221926



Western blot validation of overexpression lysate (Cat# [LY421016]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221926 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US