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Product datasheet for MR209339

Klhl20 (NM_001039482) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Klhl20
Synonyms:	AI504637; D930050H05Rik; Kleip; mKIAA4210
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR209339 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCAGGTGTACCAACATTCGACCAGGAGAGACTGGAATGGATGTAACAAGCCGCTGCACCCTTGGAG
ACCCCAACAAGCTGCCAGAAGGGGTTCCCCAACCTGCTCGCATGCCCTATATTTCAGACAAGCACCCTCG
GCAAACCTTGGAAGTGATCAACCTTCTGAGAAAGCACCGGGAGCTATGTGATGTGGTGCTAGTTGTGGGC
GCTAAGAAGATATATGCCCACCGCGTCATCCTGTCAGCCTGCAGCCCCTACTTCCGAGCAATGTTTACAG
GGGAGCTGGCAGAAAGCCGGCAGACAGAAGTAGTGATCCGAGACATAGATGAGAGGGCCATGGAGCTCCT
GATTGACTTTGCATATACCTCCCAGATCACTGTGGAAGAGGGCAATGTTCAGACTCTCTTGCCTGCTGCT
TGCCTCCTCCAGCTGGCAGAAATACAGGAAGCCTGCTGTGAATTCTTAAAGAGACAATTAGATCCTTCTA
ATTGTCTGGGCATTCGGGCTTTTGCTGACACACATTCTTGCCGTGAGTTGCTAAGGATTGCAGACAAGTT
CACCCAACATAACTTTCAAGAGGTAATGGAGAGTGAAGAATTCATGTTACTTCCGGCCAACCAACTCATT
GACATAATATCTAGTGATGAGCTCAATGTTCGGAGTGAAGAACAAGTGTTCAATGCAGTGATGGCCTGGG
TCAAATACAGTATTCAGGAAAGACGGCCTCAGTTACCCCAGGTGCTGCAACATGTTCGCCTGCCTTTGCT
TAGTCCCAAGTTCCTGGTGGGCACCGTAGGCTCTGACCCCCTCATTAAAAGTGATGAAGAATGCAGAGAC
TTGGTAGATGAGGCTAAAAACTACCTCCTGTTGCCTCAAGAACGACCACTAATGCAAGGGCCAAGGACAA
GACCACGGAAACCTATCCGATGCGGAGAAGTACTCTTTGCAGTTGGTGGTTGGTGCAGTGGAGATGCCAT
TTCCAGTGTTGAACGCTATGACCCCCAGACCAATGAGTGGCGAATGGTAGCTTCAATGAGCAAAAGGCGA
TGTGGAGTCGGGGTCAGTGTTCTTGATGACCTGTTATATGCAGTAGGCGGCCATGATGGATCCTCATATC
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CAGGACAAGCGTTGGTGTGGCAGTCCTTGGAGGTTTTCTCTATGCTGTGGGTGGACAGGATGGTGTCTCT
TGCCTCAATATAGTTGAGAGGTATGATCCAAAGGAGAACAAGTGGACCCGGGTGGCTTCAATGAGCACTA
GAAGGCTAGGGGTGGCTGTCGCCGTGTTGGGAGGGTTCTTATACGCTGTTGGTGGCTCAGATGGAACATC
TCCACTTAACACAGTGGAGCGCTACAATCCTCAGGAAAACAGATGGCACACCATAGCGCCTATGGGGACC
CGAAGAAAACACCTAGGCTGTGCGGTGTACCAGGACATGATCTATGCAGTGGGAGGGAGAGACGACACTA
CAGAGCTTAGCAGTGCTGAGAGATACAACCCCAGAACTAACCAGTGGTCTCCCGTGGTGGCCATGACATC
CCGCAGGAGTGGAGTCGGCCTGGCCGTGGTCAATGGACAGCTTATGGCAGTGGGGGGCTTTGATGGCACA
ACATACTTGAAGACCATTGAAGTTTTTGACCCAGATGCCAATACGTGGAGGTTATACGGAGGGATGAATT
ACCGTCGGCTAGGAGGTGGTGTAGGAGTTATTAAAATGACACATTGTGAATCCCATATATGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

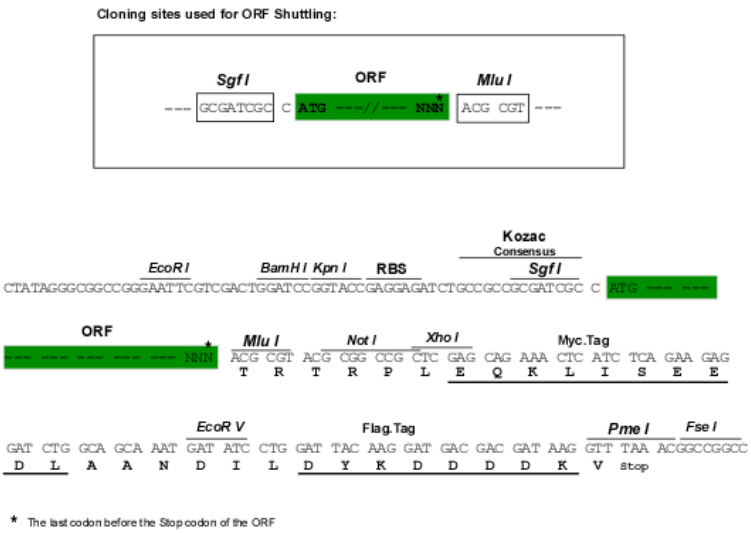
>MR209339 protein sequence
Red=Cloning site Green=Tags(s)

MRRCTNIRPGETGMDVTSRCTLGDPNKLPEGVPQPARMPYISDKHPRQTLEVINLLRKHRELCDVVLVVG
AKKIYAHRVILSACSPYFRAMFTGELAESRQTEVVIRDIDERAMELLIDFAYTSQITVEEGNVQTLLPAA
CLLQLAEIQEACCEFLKRQLDPSNCLGIRAFADTHSCRELLRIADKFTQHNFQEVMESEEFMLLPANQLI
DIISSDELNVRSEEQVFNAVMAWVKYSIQERRPQLPQVLQHVRLPLLSPKFLVGTVGSDPLIKSDEECRD
LVDEAKNYLLLPQERPLMQGPRTRPRKPIRCGEVLFAVGGWCSGDAISSVERYDPQTNEWRMVASMSKRR
CGVGVSVLDDLLYAVGGHDGSSYLNSVERYDPKTNQWSSDVAPTSTCRTSVGVAVLGGFLYAVGGQDGVS
CLNIVERYDPKENKWTRVASMSTRRLGVAVAVLGGFLYAVGGSDGTSPLNTVERYNPQENRWHTIAPMGT
RRKHLGCAVYQDMIYAVGGRDDTTELSSAERYNPRTNQWSPVVAMTSRRSGVGLAVVNGQLMAVGGFDGT
TYLKTIEVFDPDANTWRLYGGMNYRRLGGGVGVIKMTHCESHIW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039482

ORF Size: 1812 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:

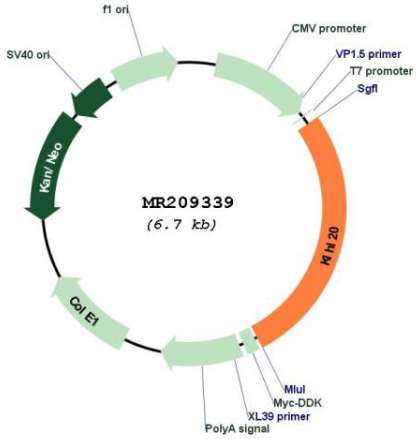
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001039482.1, NP_001034571.1

RefSeq Size:	4037 bp
RefSeq ORF:	1815 bp
Locus ID:	226541
UniProt ID:	Q8VCK5
Cytogenetics:	1 H2.1
MW:	67.4 kDa
Gene Summary:	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex involved in interferon response and anterograde Golgi to endosome transport. The BCR(KLHL20) E3 ubiquitin ligase complex mediates the ubiquitination of DAPK1, leading to its degradation by the proteasome, thereby acting as a negative regulator of apoptosis. The BCR(KLHL20) E3 ubiquitin ligase complex also specifically mediates 'Lys-33'-linked ubiquitination. Involved in anterograde Golgi to endosome transport by mediating 'Lys-33'-linked ubiquitination of CORO7, promoting interaction between CORO7 and EPS15, thereby facilitating actin polymerization and post-Golgi trafficking. Also acts as a regulator of endothelial migration during angiogenesis by controlling the activation of Rho GTPases. The BCR(KLHL20) E3 ubiquitin ligase complex acts as a regulator of neurite outgrowth by mediating ubiquitination and degradation of PDZ-RhoGEF/ARHGEF11 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209339