

Product datasheet for **RN208727**

KIhl20 (NM_001107192) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIhl20 (NM_001107192) Rat Untagged Clone
Tag:	Tag Free
Symbol:	KIhl20
Synonyms:	RGD1309490
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN208727 representing NM_001107192
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGAAGGAAAGCCAATGCGCAGGTGTACCAACATTCGACCGGGAGAGACTGGAATGGATGTAACAAGCC
 GCTGTACCCTTGGAGACCCCAACAACTCCAGAGGGGTTCCCAACCTGCTCGCATGCCCTATATCTC
 AGACAAGCACCCCTCGGCAACCTTGAAGTGATCAACCTCTGAGAAAGCACCGAGAGCTATGTGATGTG
 GTGCTAGTTGTGGGCGCTAAGAAGATATATGCCACCGAGTCATTCTGTCAGCCTGCAGCCCTACTTCC
 GAGCAATGTTTACAGGAGAGCTAGCAGAGAGCCGGCAGACAGAAGTCGTGATCCGAGACATAGATGAGAG
 GGCTATGGAGCTACTGATTGACTTTGCATATACCTCCAGATAACTGTGGAAGAGGGCAATGTTCCAGACC
 CTCTTGCTGCCGCTTGCTCCTCCAGTGCGTAAATACAAGAAGCCTGCTGTGAATTCCTAAAGAGAC
 AATTAGATCCTTCTAATTGTCTGGGCATTCGGGCTTTCGCTGACACACATTCTTGCCGCGAGTTGCTAAG
 GATTGCAGACAAGTTCACCAACATAACTTTCAAGAGGTAATGGAGAGTGAAGAATTCATGTTACTTCCA
 GCCAACCAACTCATCGATATAATATCTAGTGATGAGCTCAATGTTCCGGAGTGAAGAACAAAGTGTTAATG
 CAGTGATGGCCTGGGTCAAATACAGTATTCAGGAAGACGTCCTCAGTTACCCAGGTGCTGCAGCACGT
 CCGCCTGCCTTTGCTTAGTCCCAAGTTCCTGGTGGGCACCGTAGGCTCTGACCCCTCATTTAAAGTGAT
 GAAGAATGCAGAGACTTGGTAGATGAGGCTAAAACTACCTCCTGTTGCCTCAAGAGCGACCTCTAATGC
 AAGGGCCTCGGACAAGGCCACGGAAACCCATCCGATGCGGAGAAGTGCTTTGCAGTTGGTGGTTGGTG
 CAGTGGAGATGCCATTTCCAGTGTTGAACGCTATGATCCCCAGACCAATGAGTGGCGAATGGTGGCTTCA
 ATGAGTAAAAGGCGATGTGGAGTCGGGGTCAGTGTTCTTGATGACCTGTTATATGCAGTAGGTGGCCATG
 ATGGATCCTCATATCTCAATAGTGTGAAAGATATGACCCAAAACAAACAGTGGAGCAGTGATGTGGC
 CCTACAAGCACCTGTAGGACAAGCGTTGGTGTGGCAGTCCTCGGAGGTTTTCTCTATGCTGTGGGTGGA
 CAGGACGCTGTCTCTTGCTCAATATAGTTGAGAGGTATGATCCAAAGGAGAACAAGTGGACTCGGGTGG
 CTTGATGAGCACTCGAAGGCTGGGCGTTGCTGTGGCTGTTTTGGGAGGTTCTGTATGCTGTAGGTGG
 CTCTGATGGGACATCCCCACTCAACACAGTGGAGCGCTACAATCCTCAGGAAAACAGGTGGCATAACCATA
 GCGCCTATGGGGACCCGAAGGAAACACCTAGGTTGTGAGTGTACCAGGACATGATCTATGCTGTGGGAG
 GGAGAGACGACACTACAGAGCTTAGCAGTGCTGAGAGATACAACCCAGAACTAACAGTGGTCTCCCGT
 GGTGGCCATGACATCCCGCAGGAGTGGAGTTGGCCTAGCCGTGGTCAATGGACAGCTCATGGCAGTTGGG
 GGTTTTGATGGTACAACATACTTGAAGACCATTGAAGTTTTTGACCCAGATGCCAATACATGGAGGTTGT
 ATGGAGGGATGAATTACCGTCGGCTAGGAGGTGGTGTAGGAGTTATTAATGACACATTGTGAATCCCA
 TATATGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001107192

Insert Size: 1830 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_001107192.1, NP_001100662.1</u>
RefSeq Size:	3134 bp
RefSeq ORF:	1830 bp
Locus ID:	304920
UniProt ID:	<u>D3Z8N4</u>
Cytogenetics:	13q22
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]