

Product datasheet for **RN206142**

KIhI25 (NM_001039006) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIhI25 (NM_001039006) Rat Untagged Clone
Tag:	Tag Free
Symbol:	KIhI25
Synonyms:	RGD1310815
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN206142 representing NM_001039006
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGTCAGCGTTACGAGACCCGCAAGTCGCGGAGTAGCACAGGCTCCATGAACATCTCGTCTTCC
 ACAAGGCCTCGCACCTGACTGTGTGCTGGCCACCTCAACACTCTGCGCAAGCACTGCATGTTACCCGA
 CGTCACTCTCTGGGCTGGTGACCGAGCCTTTCCTTGCCACCGTGCACTGCTGGCTGCCTCCAGCCGATAC
 TTTGAGGCCATGTTACGCCATGGCCTTCGGGAAAGCCGGGATGATACGGTCAACTCCAGGACAACCTGC
 ACCCTGAGGTGCTGGAGCTGCTCCTGGACTTCGCCTACTCCTCTCGCATCGTCATCAATGAGGAGAACGC
 AGAGTCGCTGCTGGAGGCTGGTACATGTTGCAGTTCATGACGTCGGGATGCAGCTGCCGAGTTCCTG
 GAGAAGAATCTTCCCTCCAACCTGCCTGGCATGATGGTGTGTCTGATGCTCACCAGTGCCGGCGGC
 TCTATGAGTTCATGCCGAATGTCCTGGTACACTTTGAGACGGTCCGGCAGAGTGAGGACTTCAACAG
 TCTCTAGGGACACACTGTTGGACCTCATCTCCAGAGACGAGCTGGAGACTGAGGATGAGCGCGTGGTC
 TTTGAGGCCATCCTGCAGTGGGTGAAGCATGACCTAGAGCAGAGGAAGGTCCACCTGCCACTGCTCCTGC
 GCAATGTGCGACTGGCCCTGCTACCCTCAGACTGTCTGAAGAAAGCCGTCTCTGGAGAGGCCCTCCTCAT
 GGCGGATGAGTGACCAAACCTCATCATAGATGAGGCCTTCCGCTGCAAGACCAAGATCTTGTGAACGAT
 GGTGTGGTACCAGTCCCTTTGCCCGCCCTCGCAAGGCAGGTACACATTGCTCATCCTGGGAGGCCAGA
 CCTTATGTGTGACAAGATCTACCAAGTGGACCACAAAGCCAAGGAGATTATCCCAAGGCTGATCTGCC
 GAGCCCTCGAAGGAGTTCAGCGCTTCAGCGATTGGTTGCAAGGTCTACGTGACTGGAGGCAGGGGCTCT
 GAGAATGGGTCTCTAAGGATGTCTGGGTGTATGACACTGTCCATGAGGAATGGTCTAAGGCAGCTCCCA
 TGCTGATTGCCCGCTTTGGCCATGGCTCAGCTGAGCTGGAAAACGTCTCTATGTGGTAGGGGGCATA
 ATCCCTAGCAGGCATTTTCCCTGCCTCTCCTTCTGTCTCCTGAAACAAGTTGAGAAATATGACCTGGG
 GATAATAAGTGGACTATGGTGGCCCAATGAGAGACGGTGTGAGCAATGTGCTGTGGTGGTGGTGGTGGT
 TGAACCTCTTTGTGTTGGAGGGACCAGCATCCACCGGACATGGTGTCCAAAGTCCAGTGTGTTGACCC
 CTCGGACAACCGGTGGACAATCAAGGCAGAAATGTCCTCCAGCCTTGGCGATACACAGCAGCTGCTGTTCTG
 GGCAGCCAGATTTTCATCATGGGAGGTGACACAGAGTACACAGCAGCTTCCAGCATATCGTTCGACTGTG
 AGACCAACAGTGGACCGGATTGGGGACATGACAGCCAAACGCATGCTCCTGTATGCTGTGGCTTCAGG
 CAACAAGCTGTATGTGGTTGGAGGCTACTTTGGGACCCAGAGGTGAAGACCCTGGACTGCTATGACCT
 ACTTCAGACACATGGAAGTGCATCACCAGCGTGCCTACTCTCTCATTCCACGGCCTTTGTTAGCACCT
 GGAAGCATCTGCCTGCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001039006
- Insert Size:** 1770 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: [NM_001039006.1](#), [NP_001034095.1](#)

RefSeq Size: 3303 bp

RefSeq ORF: 1770 bp

Locus ID: 293023

UniProt ID: [Q4KLM4](#)

Cytogenetics: 1q31

Gene Summary: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex required for translational homeostasis. The BCR(KLHL25) ubiquitin ligase complex acts by mediating ubiquitination of hypophosphorylated EIF4EBP1 (4E-BP1); ubiquitination and subsequent degradation of hypophosphorylated EIF4EBP1 (4E-BP1) probably serves as a homeostatic mechanism to maintain translation and prevent eIF4E inhibition when eIF4E levels are low. The BCR(KLHL25) complex does not target EIF4EBP1 (4E-BP1) when it is hyperphosphorylated or associated with eIF4E (By similarity).[UniProtKB/Swiss-Prot Function]