

## Product datasheet for **MC202166**

### **Klh125 (NM\_182782) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Klh125 (NM_182782) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Klh125
Synonyms:	2810402K13Rik; BC027373; Enc-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC027373 sequence for NM\_182782  
 CCGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGGGGATCGCGG  
 CCGGGACTGGTGAGCCGGCCGGGGCGGCGGCAGCGCGGGGACTGCAGAGCCTGTGGGGCCCGACGGT  
 GAGGACCAGGTTGGTACACGATGTCAGTCAGTGTTCACGAGACCCGCAAGTCGAGGAGCAGCACGGGCTC  
 CATGAACATCTCAGTCTCCACAAGGCTTCACACCCTGACTGTGTGCTGGCCACCTCAACACTCTGCGC  
 AAGCACTGCATGTTACGGATGTCACACTCTGGGCTGGTACCGAGCCTTTCCTTGCCATCGTGCAGTGC  
 TGGCTGCCTCCAGCCGATACTTTGAGGCCATGTTGAGCCAGGCTGAGCCACGGCCTGCGGAAAGCCGGGATGATACGGT  
 CAACTTCCAGGACAACCTGCACCCCGAGGTGTTGGAGCTGCTGTTGGACTTTGCCTACTCTTCTCGCATC  
 GTCATCAATGAGGAGAACCGGAGTCACTACTAGAGGCTGGTGACATGCTGCAGTTCATGATGTCCGGG  
 ATGACAGCTGCTGAGTTCCTGGAGAAGAATCTTTCCCCTCCAAGTGCCTTGGCATGATGGTGTCTGTA  
 TGCCACCAGTGCCGACGGCTCTACGAGTTCATGCCGAATGTCCTGGTGCATTTTGAGACGGTGCAGG  
 CAGAGCGAGGACTTCAACAGTCTCTAGGGACACGCTGTTGGACCTCATCTCCAGAGACGAGCTGGAGA  
 CTGAGGATGAGCGCGTGGTCTTTGAGGCCATCCTGCAGTGGTGAAGCATGACTTAGAGCAGAGGAAGGC  
 CCACCTGCCCTGCTCCTGCGTAACGTGCGACTGGCCCTGCTGCCCTCAGACTGCCTGAAGATGCCGTA  
 TCTGGAGAGGCCCTCCTCATGGCAGACGAGTGCACCAAGCTCATCTTAGACGAGGCCCTCCGCTGCAAGA  
 CCAAGATCTTGCTGAATGATGGTGTGGTACCAGTCCCTTTGCCCGCCTCGCAAGGCAGGTCACACACT  
 GCTCATCTTGGGAGGCCAGACCTTCATGTGTGACAAGATCTACCAAGTGGACCACAAAGCCAAGGAGATT  
 ATCCCCAAGGCAGATCTGCCAAGCCCCGGAAGGAGTTTCAAGTGTTCAGCGATTGGTTGCAAGGTCTATG  
 TGACTGGAGGCAGGGGCTCTGAGAATGGAGTCTTAAGGATGCTGGGTGTATGACACTGTCCATGAGGA  
 ATGGTCTAAGGCCGCCCTATGCTGATTGCCCGCTTTGGCCATGGCTCAGCCGAGCTGGAGAAGTGTCTC  
 TATGTGGTGGGGGGCATACATCCCTAGCAGGATTTTCCCTGCCTCCCCTTCTGTCTCCCTGAAGCAAG  
 TAGAGAAATATGACCCTGGGATAATAAGTGGACTATGGTGGCCCCATGAGAGACGGTGCAGCAATGC  
 TGCAGTGGTGAAGTCCAAAGCTGAAACTCTTTGTGTTGGAGGGACCAGCATCCACCGAGATATGGTGTCC  
 AAAGTCCAGTGTGTTTACCCTCGGAGAACCAGTGGACAATCAAAGCAGAGTGTCCCGAGCCTGGCGAT  
 ACACAGCCCGCTGTCTGGGACGAGATCTTCATCATGAGGAGTGTACAGAGTACACAGCAGCTTC  
 AGCCTACCGCTTCGACTGTGAGACCAACAGTGGACGCGGATTGGGGACATGACAGCCAAACGCATGTCC  
 TGTGATGCCGTGGCTTACGGCAACAAGCTGTATGTGGTGGGAGGCTACTTTGGGACCCAGAGGTGTAAGA  
 CCCTGGACTGCTATGACCCTACTTCAGACACATGGAAGTGCATCACCCTGTGCCCTACTCTCTATTCC  
 CACGGCCTTTGTTAGCACCTGGAAGCATCTGCCTGCATGAAAGGCACCTTTGGAGCCAGCCAGGTGAGC  
 CCTCAGGAGGGCTGGAACCTCTGACTTATCTCTGCTCTTGGCAATGATTATCACATCTCCAGGGAGGG  
 TCTGATGAGCATCAGGGTAATGGGATTTAGGGACAGACGGTCTGTTCATATCTTACCAGTATGGGTTTG  
 TCAGTGGGAGAGGTAGTGTCTTCTGTGTGAGTGGAGGGATGAAGGCCATGTAAACCAGCAGCCCA  
 TTCTGACGAAGTGAAGTCTAATGAAGTACGCTGGCTGTTCTGATCCTCAGACGGGGCCTACCACAGGACA  
 GGTGTCTGTGAGCCCGCTGCTGTTGTGCTGCTGTGAGTAAATAAAGTCATAAGAAGTCACAAAAAAA  
 AA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_182782

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC027373</a> , <a href="#">AAH27373</a>
<b>RefSeq Size:</b>	2375 bp
<b>RefSeq ORF:</b>	1770 bp
<b>Locus ID:</b>	207952
<b>UniProt ID:</b>	<a href="#">Q8R2P1</a>
<b>Cytogenetics:</b>	7 D1
<b>Gene Summary:</b>	<p>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.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 3' UTR, compared to variant 1. Variants 1-3 encode the same the protein.</p>