

Product datasheet for **MG216861**

Klhl40 (NM_028202) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klhl40 (NM_028202) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Klhl40
Synonyms:	2310024D23Rik; Kbtbd5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216861 representing NM_028202
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGCTGGGCTTGAGCAGGCGGAGGAACAGCGTCTGTACCAGCAGACGCTCCTGCAAGACGGCCTCA
 AGGACATGCTGGACCACGGCAAGTTCTAGACTGTGTAGTGCGCGTGGGTGAGCGCGAGTCCCGTGCCA
 CCGCCTGGTGCTAGCCGCTGTAGCCCTACTTCCGCGCGCGCTTCTGGCTGAGCCAGATAGCGCGGGA
 GAGGTACGCTGGAGGAGGTGTCGCCAGACGTAGTGTCCAGGTGCTGCACTACCTGTACACATCAGAGA
 TCGCGCTGGATGAGGCAAGCGTGAAGACCTGTTGCCGCGCGCATCGATTCCAGATCCCGTCCATCTT
 CACCATCTGCGTGTGTTTCTGCAGAAGCGCTGTGCTTGCCCAATTGCCTGGTGTCTTCCGCTCGGC
 CTCCTGCTGGACTGCGCGCTGTGGCTGTGGCCGCGCGCACTTCATCTGCGCGCTTCCCGTGGTGG
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 GACCTCCTTTAGGCCTTCCACAGGAACGAAGCTCGCTCAGCCTGGTCAGCCTAGCTGGCACTCTTTAT
 GCCTTGGTGGCTTGGCACTCTGGAGACGGAGTCTGGAGAGCTGGTCCCGAGGAGCTCAATGACATCT
 GGAGATACAACGAGGATGAGAAAAGTGGGAGGGGTCTACGGGAGATCGCCTACGAGCTGGCGCCAC
 CTTCCTCCTGTGCGCCTCAATGTGCTTCGCTGACCAAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216861 representing NM_028202
 Red=Cloning site Green=Tags(s)

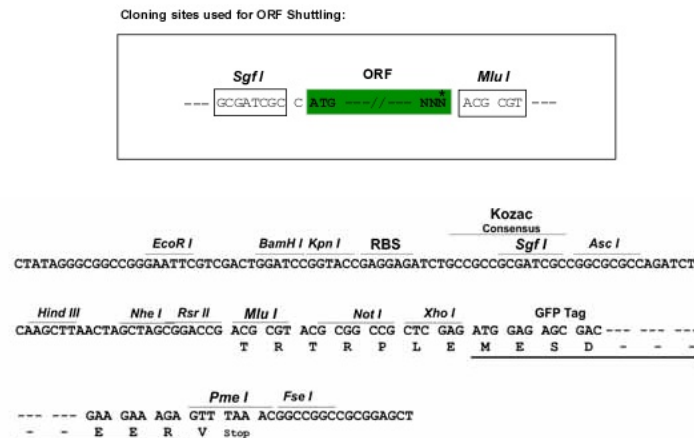
MTLGLEQAEQRLYQQTLLQDGLKDMLDHGKFLDCVVRVGERFPCHRLVLAACSPYFRARFLAEPDSAG
 EVRLEEVSQVLSQVLYLHYLTSEIALDEASVQDLFAAAHRFQIPSIPTICVSFLQKRLCLANCLAVFRLG
 LLLDCARLAVARDFICARFPLVARDNDFLGLSADELIAIISDGLNVEKEEAVFEAVMRWASSGDAEAQ
 AERQRALPTVFESVRCRLLPRAFLETRVERHPLVRSQPELLRKVMVKAHEGRLTTLRKKKKEGEQTA
 RAKEANQGTEDTKAEDDEERVLPGILNDTLRFGMFLQDLIFMISEEGAVAYDPAANECYCASLSTQIPKN
 HVSLVTENQVVFAGGLFYEDNKEDPMSAYFLQFDHLDSEWLGMPPLSPRCLFGLGEALNAIYVVGGR
 ELKDSSESLDSVLCYDRLSFKWGESDPLPYAVYGHTVLSHMDLVYVIGGKGKDRKCLNKMVCYDPKKFEW
 KELAPMQTARSLFGATVHDGRIFVAAGVTDGLTSSSEVYSIADNKWTSFEAFQERSLSLVSLAGTLY
 ALGGFATLETESGELVPTELNDIWRNEDEKKWEGVLREIAYAAGATFLPVRLNLRLTKM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_028202

ORF Size: 1863 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_028202.3](#), [NP_082478.1](#)

RefSeq Size: 2455 bp

RefSeq ORF: 1866 bp

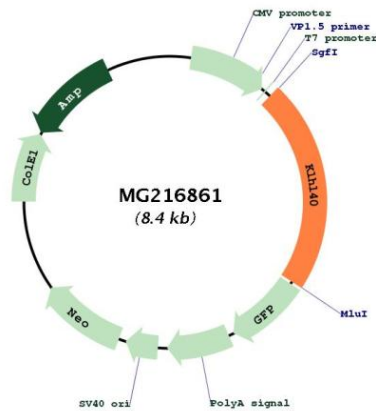
Locus ID: 72330

UniProt ID: [Q9D783](#)

Cytogenetics: 9 F4

Gene Summary: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that acts as a key regulator of skeletal muscle development (PubMed:25940086). The BCR(KLHL40) complex acts by mediating ubiquitination and degradation of TFDP1, thereby regulating the activity of the E2F:DP transcription factor complex (PubMed:25940086). Promotes stabilization of LMOD3 by acting as a negative regulator of LMOD3 ubiquitination; the molecular process by which it negatively regulates ubiquitination of LMOD3 is however unclear (PubMed:24960163).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216861