

Product datasheet for **RC209287**

MEAK7 (TLDC1) (NM_020947) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEAK7 (TLDC1) (NM_020947) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEAK7
Synonyms:	KIAA1609; mEAK-7; TLDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC209287 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAACAGCAGAAGCCGTGTGGGGCGGAGCTTTTGTTCACAGTTTCTCCTGAGGAACAGGCAGAGA
 TTGATCAATTGTTTATGCTCTGTTCATCAGATAAAAACAGCCGAATGTCTCATCAAATCCTTCTCTCT
 GAAGGCACTACAGAACCACGTCGGGGAAGCTCTTCCCCAGAGATGGTACCAGGCTGTATGATGGCATG
 CGGAGGGTCGACCTGACAGGGAAGGCGAAGGGACCCAGTGAGAACGTGTCCAGGAGCAGTTCACAGCAT
 CCATGTCCCACCTGTTGAAAGGAACTCCGAGGAGAAGAGTCTCATGATTATGAAATGATTTCTGCCAC
 AGAAGGTCCCCTGAAGGCCAGAGAAGTCCAAAAGTTTACAGAGGATCTGGTTGGCTCTGTGGTGCACGTG
 CTAAGCCACAGACAGGAGCTGAGAGGCTGGACTGGGAAGGAAGCCCAAGGCCCAACCCCGGGTGCAGG
 TGCTGGCTGCTCAGCTGCTCTGACATGAAGTGCAAGATGGCAAGAGACTTCTGGGGCCCAAGTGGCT
 GGACTATGACTGTGACCGAGCTGTGATCGAGGACTGGGTGTTGAGGTCCCCATGTGGCCATATTCCTG
 AGTGTGGTCATTTGCAAGGGCTTCTCGTCTGTGCTCGTCTCTTGATCTGACTACCCTGGTCCCTGAGC
 GTCAAGTGGACCAGGGCAGGGGTTTTGAGAGCATCCTGGATGTCCTCTCTGTGATGATACATCAACGCCCA
 GCTGCCTCGGGAGCAGCGGCACCCTGGCGCTGCTTTTTCTGCTGAGCTCCATGGACACAGCTTCTCC
 CAGCTCTGTGGCCACATCACTACCCGGGACCCTGTGTGGCTGTCTCGAGGACCATGACAAGCATGTGT
 TCGGTGGGTTTGCTCTTGTCTTGGGAGGTGAAGCCTCAGTTTCAAGGGGACAACAGATGCTTCTCTGTT
 CTCCATCTGCCCCAGCATGGCTGTGTACACACACAGGGCTACAACGACCACTACATGACTTGAACCAT
 GGACAGCAGACGATCCCGAACGGACTGGGTATGGGGGGCAGCACAATTACTTTGGGCTTGGGTGGATG
 TTGATTTTGGGAAAGACACAGCAGAGCCAAGCCACGTGACCCACGTACAACAGCCCGAGCTGTCCGGC
 TCAGGAGAACTTCCAGTTTGTAAAGATGGAGGTGTGGGCGGTTGGAGACCCTCAGAGGAGCAGTTGGCC
 AAGGGCAACAAGAGCATCCTGGATGCGGACCCTGAGGCCAGGCCCTGCTGGAGATCAGTGGCATTTCG
 GCCACAGCGAAGGGCTCCGGGAAGTCCCGGACGATGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209287 protein sequence
 Red=Cloning site Green=Tags(s)

MGNSRSRVGRSFCQFLPEEQAEIDQLFDALSSDKNSPNVSSKSFSLKALQNHVGEALPPEMVTRLVDGM
 RRVDLTGKAKGPESENVQEQFTASMSHLLKGNSEEKSLMIMKMI SATEGPVKAREVQKFTEDLVGSVVHV
 LSHRQELRGWTGKEAPGNPRVQVLAQQLSDMKLQDGKRLGPQWLDYDCDRAVIEDWVFRVPHVAIFL
 SVVICKGFVLCSLDLTLVPERQVDQGRGFESILDVLSVMYINAQLPREQRHRWRLFSSELHGHSFS
 QLCGHIHTRGPCVAVLEDHDKHVFGGFASCSWEVKPQFQGDNRCLFSICPSMAVYTHGTGYNHYMLNH
 GQQTIPNGLMGQGHNYFGLWVDVDFGKGHSRAKPTCTTYNSPQLSAQENFQFDKMEVWAVGDPSEEQLA
 KGNKSILDADPEAQALLEISGHSRHSEGLREVPDDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6126_c07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_020947

ORF Size: 1368 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.

RefSeq: [NM_020947.4](#)

RefSeq Size: 5031 bp

RefSeq ORF: 1371 bp

Locus ID: 57707

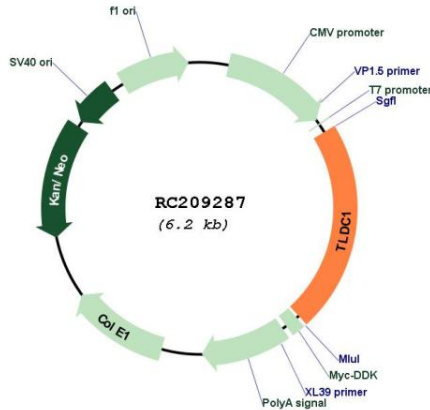
UniProt ID: [Q6P9B6](#)

Cytogenetics: 16q24.1

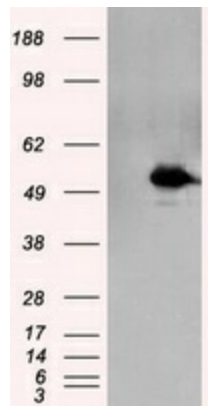
MW: 51 kDa

Gene Summary: Activates an alternative mTOR signaling through RPS6KB2 activation and EIF4EBP1 repression to regulate cell proliferation and migration (PubMed:29750193). Recruits MTOR at the lysosome, essential for MTOR signaling at the lysosome (PubMed:29750193). [UniProtKB/Swiss-Prot Function]

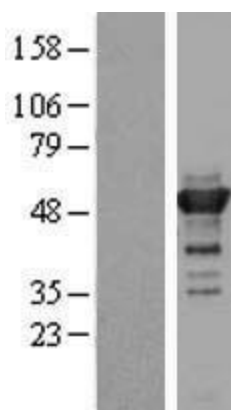
Product images:



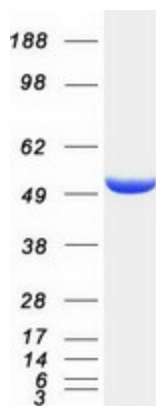
Circular map for RC209287



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY KIAA1609 (Cat# RC209287, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KIAA1609(Cat# [TA501037]). Positive lysates [LY402813] (100ug) and [LC402813] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402813]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209287 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MEAK7 protein (Cat# [TP309287]). The protein was produced from HEK293T cells transfected with MEAK7 cDNA clone (Cat# RC209287) using MegaTran 2.0 (Cat# [TT210002]).