

Product datasheet for **RG209287**

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:	TurboGFP
Symbol:	MEAK7
Synonyms:	KIAA1609; mEAK-7; TLDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209287 representing NM_020947
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAACAGCAGAAGCCGTGTGGGGCGGAGCTTTTGTTCACAGTTTCTCCTGAGGAACAGGCAGAGA
 TTGATCAATTGTTTATGCTCTGTTCATCAGATAAAAACAGCCGAATGTCTCATCAAATCCTTCTCTCT
 GAAGGCACTACAGAACCACGTCGGGGAAGCTCTTCCCCAGAGATGGTACCAGGCTGTATGATGGCATG
 CGGAGGGTCGACCTGACAGGGAAGGCGAAGGGACCCAGTGAGAACGTGTCCAGGAGCAGTTCACAGCAT
 CCATGTCCACCTGTTGAAAGGAACTCCGAGGAGAAGAGTCTCATGATTATGAAATGATTTCTGCCAC
 AGAAGGTCCCCTGAAGGCCAGAGAAGTCCAAAAGTTTACAGAGGATCTGGTTGGCTCTGTGGTGCACGTG
 CTAAGCCACAGACAGGAGCTGAGAGGCTGGACTGGGAAGGAAGCCCAAGGCCCAACCCCGGGTGCAGG
 TGCTGGCTGCTCAGCTGCTCTGACATGAAGTGCAAGATGGCAAGAGACTTCTGGGGCCCAAGTGGCT
 GGACTATGACTGTGACCGAGCTGTGATCGAGGACTGGGTGTTGAGGTCCCCATGTGGCCATATTCCTG
 AGTGTGGTCATTTGCAAGGGCTTCTCGTCCTGTGCTCGTCTCTTGATCTGACTACCCTGGTCCCTGAGC
 GTCAAGTGGACCAGGGCAGGGGTTTTGAGAGCATCCTGGATGTCCTCTCTGTGATGATACACGCCCA
 GCTGCCTCGGGAGCAGCGGCACCGCTGGCGCTGCTTTTTCTGTCTGAGCTCCATGGACACAGTCTTCC
 CAGCTCTGTGGCCACATCACTACCGGGGACCCTGTGTGGCTGTCTCGAGGACCATGACAAGCATGTGT
 TCGGTGGGTTTGCTCTTGTCTTGGGAGGTGAAGCCTCAGTTTCAAGGGGACAACAGATGCTTCTCTGTT
 CTCCATCTGCCCCAGCATGGCTGTGTACACACACAGGGCTACAACGACCACTACATGACTTGAACCAT
 GGACAGCAGACGATCCCGAACGGACTGGGTATGGGGGGCAGCACAATTACTTTGGGCTTGGGTGGATG
 TTGATTTTGGGAAAGGACACAGCAGAGCCAGCCACGTGACCCACGTACAACAGCCCGCAGCTGTCGGC
 TCAGGAGAACTTCCAGTTTGATAAGATGGAGGTGTGGGCGGTTGGAGACCCTCAGAGGAGCAGTTGGCC
 AAGGGCAACAAGAGCATCCTGGATGCGGACCCTGAGGCCAGGCCCTGCTGGAGATCAGTGGGCATTTCG
 GCCACAGCGAAGGGCTCCGGGAAGTCCCGGACGATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209287 representing NM_020947
 Red=Cloning site Green=Tags(s)

MGNSRSRVGRSFCQFLPEEQAEIDQLFDALSSDKNSPNVSSKSFSLKALQNHVGEALPPEMVTRLVDGM
 RRVDLTGKAKGPESENVSQEQFTASMSHLLKGNSEEKSLMIMKMI SATGEPVKAREVQKFTEDLVGSVVHV
 LSHRQELRGWTGKEAPGNPRVQVLAQQLSDMKLQDGKRLGPQWLDYDCDRAVIEDWVFRVPHVAIFL
 SVVICKGFLVLCSSLDLTLVPERQVDQGRGFESILDVLSVMYINAQLPREQRHRWRLFSSELHGHSFS
 QLCGHIHTRGPCVAVLEDDHKHVFGGFASCSWEVKPQFQGDNRCLFSICPSMAVYTHTYNDHYMYLNH
 GQQTIPNGLGMGQHNYFGLWVDVDFGKHSRAKPTCTTYNSPQLSAQENFQFDKMEVWAVGDPSEEQLA
 KGNKSILDADPEAQALLEISGHSRHSEGLREVPDDE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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_020947.2](#), [NP_065998.2](#)

RefSeq Size: 3895 bp

RefSeq ORF: 1371 bp

Locus ID: 57707

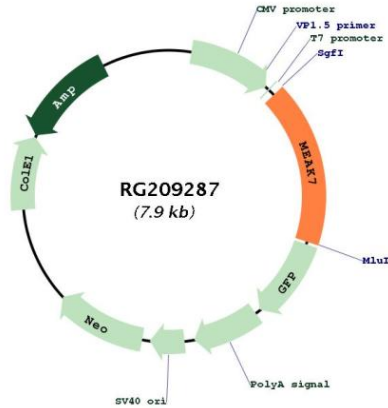
UniProt ID: [Q6P9B6](#)

Cytogenetics: 16q24.1

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 RG209287