

## Product datasheet for **SC107639**

### MEAK7 (TLDC1) (NM\_020947) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEAK7 (TLDC1) (NM_020947) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEAK7
Synonyms:	KIAA1609; mEAK-7; TLDC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020947, the custom clone sequence may differ by one or more nucleotides

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ATGGGGAACAGCAGAAGCCGTGTGGGGCGGAGCTTTTGTTCACAGTTTCTCCTGAGGAACAGGCAGAGA
TTGATCAATTGTTTGATGCTCTGTTCATCAGATAAAAACAGCCGAATGTCTCATCCAAATCCTTCTCTCT
GAAGGCACTACAGAACCACGTCGGGGAAGCTCTCCCCCAGAGATGGTCACCAGGCTGTATGATGGCATG
CGGAGGGTCGACCTGACAGGGAAGGCGAAGGGACCCAGTGAGAACGTGTCCAGGAGCAGTTCACAGCAT
CCATGTCCACCTGTTGAAAGGAACTCCGAGGAGAAGAGTCTCATGATTATGAAAATGATTTCTGCCAC
AGAAGGTCCCGTGAAGGCCAGAGAAGTCCAAAAGTTTACAGAGGATCTGGTTGGCTCTGTGGTGCACGTG
CTAAGCCACAGACAGGAGCTGAGAGGCTGGACTGGGAAGGAAGCCCAGGGCCCAACCCCGGGTGCAGG
TGCTGGCTGCTCAGCTGCTCTGACATGAAGCTGCAAGATGGCAAGAGACTTCTGGGGCCCAAGTGGCT
GGACTATGACTGTGACCGAGCTGTGATCGAGGACTGGGTGTTACAGGGTCCCCATGTGGCCATATTCCTG
AGTGTGGTCATTTGCAAGGGCTTCTCATCCTGTGCTCGTCTCTTGATCTGACTACCCTGGTCCCTGAGC
GTCAAGTGGACCAGGGCAGGGGTTTTGAGAGCATCCTGGATGTCCTCTGTGCATGTACATCAACGCCCA
GCTGCCTCGGGAGCAGCGGCACCGCTGGTGCCTGCTCTTTTCTGCTGAGCTCCATGGACACAGCTTCTCC
CAGCTCTGTGGCCACATCACTCACCGGGGACCCGTGTGGCTGTCTCGAGGACCATGACAAGCATGTGT
TCGGTGGGTTTGCTCTTGCTCTTGGGAGGTGAAGCCTCAGTTTCAAGGGGACAACAGATGCTTCTCTGTT
CTCCATCTGCCCAGCATGGCTGTGTACACACACACGGGCTACAACGACCACTACATGTACTTGAACCAT
GGACAGCAGACGATCCCGAACGGACTGGGTATGGGGGGCAGCACAATTACTTTGGGCTTTGGGTGGATG
TTGATTTTGGGAAAGGACACAGCAGAGCCAAGCCACGTGCACCACGTACAACAGCCCGCAGCTGTGGC
TCAGGAGAACTTCCAGTTTGATAAGATGGAGGTGTGGCGGTTGGAGACCCCTCAGAGGAGCAGTTGGCC
AAGGGCAACAAGAGCATCCTGGATGCGGACCTGAGGCCAGGCCCTGCTGGAGATCAGTGGGCATTTCG
GCCACAGCGAAGGGCTCCGGGAAGTCCCGGACGATGAATGA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_020947 unedited TTATAGGCGGCACGCGATTTCGGCACGAGGAGGAAGCCCGGCAGGAGAATTCTGCCAGATA TCAGGACAGATGGGGAACAGCAGAAGCCGTGTGGGGCGGAGCTTTTGTTCACAGTTTCTT CCTGAGGAACAGGCAGAGATTGATCAATTGTTTGTATGCTCTGTCATCAGATAAAAAACAGC CCGAATGTCTCATCCAAATCCTTCTCTCTGAAGGCACTACAGAACCACGTCGGGGAAGCT CTTCCCCCAGAGATGGTCACCAGGCTGTATGATGGCATGCGGAGGGTCGACCTGACAGGG AAGGCGAAGGGACCCAGTGAGAACGTGTCCCAGGAGCAGTTCACAGCATCCATGTCCCAC CTGTTGAAAGGAACTCCGAGGAGAAGAGTCTCATGATTATGAAAATGATTTCTGCCACA GAAGGTCCCGTGAAGGCCAGAGAAGTCCAAAAGTTTACAGAGGATCTGGTTGGCTCTGTG GTGCACGTGCTAAGCCACAGACAGGAGCTGAGAGGCTGGACTGGGAAGGAAGCCCGAGGG CCCAACCCCGGGTGCAGGTGCTGGCTGCTCAGCTGCTCTGAGATGAAGCTGCAAGAT GGCAAGAGACTTCTGGGGCCCCAGTGGCTGGACTATGACTGTGACCGAGCTGTGATCGAG ACTGGGTGTTCAAGGTCCCCATGTGGCCATATCCNTGAGTGTGGTCATTTGCAAGGGC TNTCTCGTCTGTGCTCGTCTTGTATCTGACTACCCTGGTCCNTGAGCGTCAGTGACCC ANNNGCCAGGGTTNTGAGAGCTNNCTGNATGTCCTCTCTGTATGTACATCAACGNCCA GCTGCCTCNGGAGCAGCGNACCNTGGCGCTGCTCTTTTCGTCTGAGCTCATGGAACA GCTTCTCCCACTCTGTGGCCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020947
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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="#">NM_020947.2</a> , <a href="#">NP_065998.2</a>
<b>RefSeq Size:</b>	3895 bp
<b>RefSeq ORF:</b>	1371 bp
<b>Locus ID:</b>	57707
<b>UniProt ID:</b>	<a href="#">Q6P9B6</a>
<b>Cytogenetics:</b>	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]