

Product datasheet for **SC309824**

QIL1 (C19orf70) (NM_205767) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QIL1 (C19orf70) (NM_205767) Human Untagged Clone
Tag:	Tag Free
Symbol:	QIL1
Synonyms:	C19orf70; MIC13; P117; QIL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309824 representing NM_205767. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGTGGCCCGGGTGTGGTCGCTGATGAGGTTCTCATCAAGGGAAGTGTGGCTGGGGCGCCGTCTAC
 CTGGTGTACGACCAGGAGCTGCTGGGGCCAGCGACAAGAGCCAGGCAGCCCTACAGAAGGCTGGGGAG
 GTGGTCCCCCGCCATGTACGAGTTCAGCCAGTACGTGTGTGAGCAGACAGGCCTGCAGATACCCAG
 CTCCAGCCCCCTCAAAGATTTACTTTCCCATCCGTGACTCCTGGAATGCAGGCATCATGACGGTATG
 TCAGCTGTGCGGTGGCCCCCTCAAGGCCCGCGAGTACTCAAGGAGGGCTGGGAGTATGTGAAGGCC
 CGCACCAAG**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_205767
Insert Size:	357 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.


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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:	<ol style="list-style-type: none"> 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:	<u>NM_205767.2</u>
RefSeq Size:	904 bp
RefSeq ORF:	357 bp
Locus ID:	125988
UniProt ID:	<u>Q5XKP0</u>
Cytogenetics:	19p13.3
MW:	13.1 kDa
Gene Summary:	<p>Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane. Constituent of mature MICOS complex, it is required for the formation of cristae junction (CJ) and maintenance of cristae morphology. Required for the incorporation of MICOS10/MIC10 into the MICOS complex.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate 5' exon, which results in a difference in the 5' UTR and use of an alternate start codon compared to variant 1. It encodes isoform 2, which is shorter than and has a distinct N-terminus compared to isoform 1.</p>