

Product datasheet for **MC204483**

Itfg2 (NM_133927) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itfg2 (NM_133927) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itfg2
Synonyms:	2700050P07Rik; AI646725
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC025492
 CCACGCGTCCGCGGACGCGTGGGCCGGTTCGGTGGCCTGACACGCGTGCACGGCTGTCCTGAGGGCTCGG
 GGGTCGTTTTGGTGCAGTGGCCCGGCACCTCAGCCCTCCAGAGTGCCATGAGGTCGGTTAGTTATGTGCA
 GCGCGTGGCGCTGGATTTAGCGGGAGTCTTCCCGCACGCCATCTGCCTCGGAGACGTGGATAACGAC
 GCGTTAAATGAGCTAGTTGTGGGAGACACCAGCGGAACTGTCCGTGTATAAGAATGACGACAGCCGGC
 CATGGCTTACCTGCATGTGCCAGGGAATGTTGACTTGTGTTGGGGTCGGAGATGTCTGTAATAAAGGGAA
 GAACCTGGTGGTAGCAGTCAGCGCAGAAGGCTGGTTGCACTTGTGTTGACCTGACACCCACCAAGGCTCTG
 GATGCCTCTGGGCACCATGAGACACTTGGAGAGGAGCAGCGACCTGTCTTCAAGCAGCACATCCCGGCCA
 ACACAAAGGTCATGCTGATCAGCGACATCGATGGAGATGGGTGTTACGAGCTGGTGGTAGGATACACAGA
 CCGTGTGGTGCGGGCCCTCCGCTGGGAAGAAGTGGCTGAGGGGCCTGAACACCTGGCAGGGCAGTTGGTG
 TCCCTCAAGAAGTGGATGCTGGAGGGTCAGGTAGACAGTCTCTGTGACCCAGGGCCTCTGGGTGTG
 CTGAGTTGGTGTGTCGACAGCCAGGGTGTGCTTATGCAGTTCTGCTGTGCACCTGGAACAAGGACTGG
 CTCCCCTCTGCCTCTGAGGAGGCCACAGGAGACAGTGGGAGACCCAGCTGCCGAGATGTAGTCTG
 CACCAGACATCTGGCCGGATCCACAACAAGAAGCTCTCCACTCACCTAATTGGCAACATCAGACAAGGTC
 ATAACCTGAAGTGGTAACGCAGGCTCTTCCGCTGTGCACCTGGATGGGACTGAAGCTGATGCA
 GGAAGCAGACAAGTTGCTGTGGTCTGTGCAAGTGGATCACCAGCTTTTGCCTAGAGAAGCTGGATGTC
 ACGGGCAATGGGCTTGGAGAGGTGGTAGCTTGTGCCTGGGATGGACAGACATATATCATCGATCACAAAC
 GCACCGTTGTGCGCTTCCAAGTGGATGAAAATATCCGTGCCTTCTGTGCAGGCCAGTACGCTGCAAAGA
 GGGCCGCAACAGTCCCTGCTTGGTATATGTACCTTCAATCAGAAGATCTACGTGTACTGGGAGGTGCAG
 CTGGAGCGCATGGAGTCCACTAACCTTCTGAAGCTGCTGGAGGCTGAGCCGAGTACCACCGCCTACTGC
 AGGAGCTGCGTATCCTGAAGATCCTCCTGCAGTCTGTACCCTGCTTATCAGACTCTCTACCATCCGGAC
 CAGCCACTACAGTGTACCCCTCAAGCTTCCAGGACCCACCTAGCTGGGCTCGACCACTTAGCTGGTGA
 AGGATCCTTCCGAGCCCCAACCTACCCAGAGCGATCCATGACCTTGGAGGATGGGAGTGTGTATTA
 CAGAGGAAGGAGCAGGACTGGGTTCTCAGCCAGGATGGATGTGGCCCCGAGAGCTGTGATGAAGAGA
 TCCATCGGTTGCCCTCTGCTCGTGCTCCTTCTCATGCTCCCTGCTCTACTGCAGGAAACCGACTTGT
 GTGTGAGACAAGGAGCAAACTTTGCTATGTTCCAACACCTGAAAGGCTTACGGCTGAGGAACTGAGG
 GAGCATGGGGTGGCCCCCTCCCCTGCTGAGTGCCGATTTTACAGCATAGCTCCAGGACGTGACAC
 TCGCAGTTATTGCAGGAATGAACGGCAGAGTATTTATTCTTTAGGGATTTTCTGTCTCATCTTCTG
 TGTCTTCCATTTACTGAAGCAACTAGGTCAGGGCTTTCTCATTTTGTGCATCATCTCTCTGGTTTTGT
 TTTTGTGTTGGTTTTGTTTTGTATGTCTCTGTGTGCAAGGAGGAACCCGGGGTGTTCACACACCAGC
 CAAGTGTCTGCCATTGAGTGTATCCAGCACTGCCGTTCTTAAAGTACCGTGTGCTTGGAGGCTCA
 CCCACCTGCTTCCAAACATGACTGCCTGTGCGAAACTAGATGCTCACAGTTTGTCTTACATGATGGTGC
 ACCAGTGTACTCCAGTTCTTGGAGAAAAGATCATGAGTCCAAAGCCAGCCAAGGCTCCATGCAAGTTT
 GAGACCAGCGTGGGTACATTTGGAGATCTGATCTCAAATAAAACAAAAGGCGTTAAAAAAAAAAAAAAAA AA

Restriction Sites: RsrII-NotI

ACCN: NM_133927

Insert Size: 1353 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).

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: [BC025492](#), [AAH25492](#)

RefSeq Size: 2312 bp

RefSeq ORF: 1353 bp

Locus ID: 101142

UniProt ID: [Q91WI7](#)

Cytogenetics: 6 F3

Gene Summary: As part of the KICSTOR complex functions in the amino acid-sensing branch of the TORC1 signaling pathway. Recruits, in an amino acid-independent manner, the GATOR1 complex to the lysosomal membranes and allows its interaction with GATOR2 and the RAG GTPases. Functions upstream of the RAG GTPases and is required to negatively regulate mTORC1 signaling in absence of amino acids. In absence of the KICSTOR complex mTORC1 is constitutively localized to the lysosome and activated. The KICSTOR complex is also probably involved in the regulation of mTORC1 by glucose.[UniProtKB/Swiss-Prot Function]