

Product datasheet for **MR209389**

Itfg1 (NM_028007) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itfg1 (NM_028007) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itfg1
Synonyms:	2310047C21Rik; AI314457; Cda08; D8Wsu49e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209389 representing NM_028007
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCAGGCCGGCTTCTAGCGCCAGGGCGGTGCTGGCCCCGCTGTTCTTGGGGCTCGCGCTGCTGA
 GCGTTGGGCTGCCCCGGCGCGGGCTCTGCACAACGTACGGCCGAGCTCTTGGGGCTGAGGCCTGGGG
 CACCCTGGCGGCCTTCGGTGACCTCAACTCCGACAAACAGACGGACCTCTTCGTGCTGCGGGAAAGAAAT
 GACTTAATTGTCTTCTTGGCAGATCAGAGTGCACCCTATTTAAACCCAAGGTAAAGGTATCCCTGAAGA
 CTTTGAGTGCCTGGTAACAAGTGTGGTCCCTGGTATTATGATGGGGATTACAAATGGATGTCCTGCT
 CACATACTTTCCCAAAATCATACCAACAGTGAAGTGGAGCTGTTATCTTTGGGGACAAAATCAAACA
 TTAGATCTAAAAACATGACCATACTCAATAGGACTTTTCATGACCAACCACTGATTATGGACTTCAATG
 GTGATCTAATTCCTGATGTGTTGGTATCACAATGAATCCAGCCAACCGCAGATACTGCTAGGAGGAGA
 TTTATCATGGCCTCCTGCCTTGACCACTAAGAGTAAAATGCGAGATCCACATTCCCATGCATTTATTGAT
 CTGACTGAAGATTTTACAGCAGATTTATTCCTCAGCAGATTGACTGCCTCTAATGCCTTCCAGTTTGAGA
 TATGGGAAAAATTTGGGTGGAAACTTCTCTATCCATAGTGTCTTTGAAAAACCTAAAAATCTGGTGGTGGT
 TGGACAGTCAGCAATTTGCAGACTTTGATGGAGATGGACACATGGATCACTTGCTGCCAGGCTGTGAAGAT
 AAGGACTGTGAGAAAAGTGCCATATATTTAATGAGATCTGGAACAGGACAGTGGGTTCTGTGCTTCAGG
 ATTTTAGCAATAAGGGTACACTCTGGGGCTTTGTGCCATTTGTGCATGAAGAACAACCAACCACAATACC
 AATCCCACTCACACTTACATTTGGAGACTACAACATGGACGGCTACCCAGATGCTCTGGCTATATTGAAG
 AATACATCTGGAAGCAATCAGCAAGCCTTTTACTGGAGAAGTCCCATGCAATAATGCGAGCTGCGAAG
 AAGTGATCGGATGTTTAAAGTCTACTGGGACCTAGCAGGCCTAAATCTAATCAAAGACGCCATAGTTGC
 CACCTTTTTGATATTTATGAAGATGGAATCTTGACATTATAGTCTCAGTAAAGGATACACCAAGAAT
 GATGTTGCCATCCATACACTCAAAAATAACTTTGAGGCAGATGCTTACTTTGTTAAAGTCATTGTTCTTA
 GTGGTCTATGTTCTAATGACTGCTCCTCGTAAGATAACACCTTTTGGAGTAAATCAGCCTGGACCTTATAT
 CATGTACACAACAGTAGATGCAATGGATATCTGAAAAACGGCTCAGCTGGACAGCTCAGCCAGTCAGCA
 CACTTAGCTCTTCAGCTACCTTACAATGTACTTGGCTTAGGCCGAAGTGCCAATTTCTGGATCATCTTT
 TTGTTGGTATTCCCCGTCCATCTGGAGAGAAGTCTATAAGAAAACAAGAGTGGACAGCAATCATTCCAAA
 TTCCAGCTGATTGTCATTCCATATCCTACAATGTCCCTCGAAGCTGGAGTGCCAAATTTACCTGACA
 CCAAGTAACATTGCTGCTGACTGCGGTAGCCCTCATTGGAGTCTGCATTTTTATCCTGGCAATAATCG
 CCATTTTACATTGGCAGAAAAGAAAGCCGATGACAGAGAAAAACGACAGGAAGCACATCGGTTTCATTT
 TGATGCTATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209389 representing NM_028007
 Red=Cloning site Green=Tags(s)

MAAGRLPSARAVLAPLFLGLALLSVGPAPARALHNVTAELEFGAEAWGTLAAFGLDLSNDKQTDLFVLRERN
 DLIVFLADQSAPYFKPKVKVSLKTL SALVTSVPGDYDGDSDQMDVLLTYFPQNHTNSELGAVIFWQGNQT
 LDPKNMTILNRTFHDQPLIMDFNGDLIPDVFGITNESSQPQILLGGDL SWHPALTTKSKMRDPHSHAFID
 LTEDFTADLFL TTLTASNAFQFEIWENLGGNFSIHSVFEKPKNL VVVGQSAFADFDDGDHMDHLLPGCED
 KDCQKSAIYLMRSGTGQWVPVLQDFSNKGLWGFVPFVHEEQPTTIPIPLTLHIGDYNMDGYPDALAILK
 NTSGSNQQAFLLENVPCNNASCEEVHRMFKVYWDLAGLNLIKDAIVATFFDIYEDGILDIIIVLSKGYTKN
 DVAIHTLKNFEADAYFVKVIVLSGLCSNDCPRKITPFGVNQPGPYIMYTTVDANGYLKNGSAGQLSQSA
 HLAALQLPYNVGLGRSANFLDHLFVGIIPRPSGEKSIRKQEWTAIIPNSQLIVIPYPHNVPRSWSAKLYLT
 PSNIVLLTAVALIGVCIFILAIIAILHWQEKKADDREKRQEAHRHFHDAM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9005_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028007

ORF Size: 1830 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.

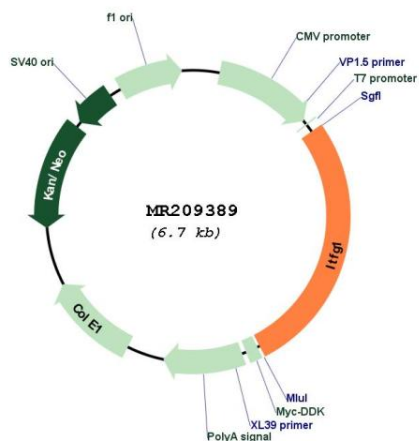
RefSeq: [NM_028007.3](#), [NP_082283.2](#)

RefSeq Size: 3355 bp

RefSeq ORF: 1833 bp

Locus ID: 71927
UniProt ID: [Q99KW9](#)
Cytogenetics: 8 41.61 cM
MW: 67.9 kDa
Gene Summary: Modulator of T-cell function. Has a protective effect in graft versus host disease model. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209389