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Product datasheet for RR204298

Ifi30 (NM_001030026) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ifi30 (NM_001030026) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ifi30
Synonyms:	MGC124690
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204298 representing NM_001030026 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCCTGTTCTCCGCTCGTACCATTCTTGTCCCTTTTGCTTCTGCTGTTCCTACCCGAGGTTCCCAGAG CAGCCACTGCGTCCCTGCCGCAAGGATCCTCCGAGGGCGCAGCCACCTGCAAGGCCCACGACCTGTGCCT CTTCGGGCCACGCCGGTTGCTCTCTGCACCACCTGTCAATGTCAGCCTCTATTATGAGTCCCTGTGTGGA GCTTGTCGCTACTTCCTCGTCCGAAATTTGTTCCCAACCTGGCTGATGGTTATGGAAATCATGAACATCA CTCTGGTGCCCTACGGGAACGCACAGGAGAGAAATGTCAGCGGTACATGGGAGTTCACGTGCCAGCACGG GGAGCTGGAGTGTAAACTGAACAAGGTGGAGGCCTGTCTGCTGGACAAGCTGGAAAAGGAGGCGGCATTC CTAACCATCGTCTGTATGGAGGAGATGGAGGACATGGAGAAGAAACTGGGCCCGTGCCTGCAGCTGTATG TTCCAGAGGTGTCACCAGAAAGCATCATGGAGTGTGCCACCGGAAAACGAGGCACAGAGCTGATGCATGA GAACGCCCAGCTCACAGATGCCCTACAGCCACCCCATGAGTATGTGCCCTGGGTCCTGGTCAACGAGAAA CCGTTGACGGACCCCAGCCAGCTCCTGAGCTCCGTTTGTGAGCTGTACCAGGGGACAGAGAAGCCAGACA TCTGCTCCTCCATGGCTGATGCCCCCAGGGAGGTCTGCTATAAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

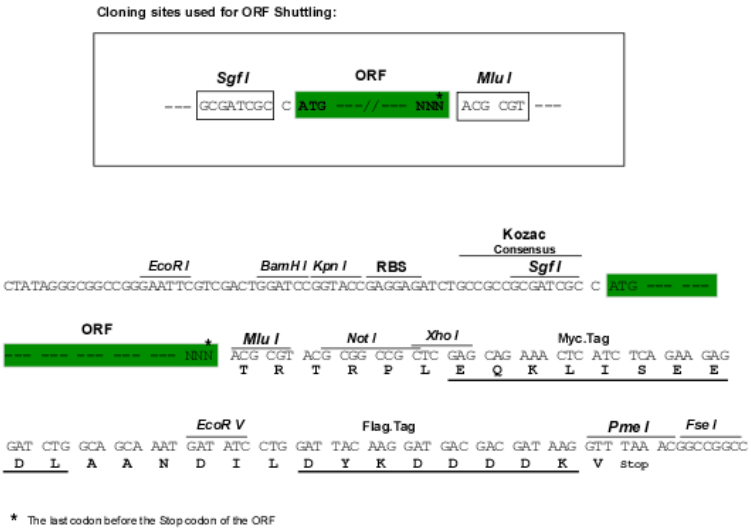
>RR204298 representing NM_001030026
Red=Cloning site Green=Tags(s)

MSCSPLVPFLSLLLLLFLPEVPRAATASLPQGSSEGAATCKAHDLCLFGPRRLLSAPPVNVSLYYESLCG
ACRYFLVRNLFPTWLMVMEIMNITLVPYGNAQERNVSGTWEFTCQHGELECKLNKVEACLLDKLEKEAAF
LTIVCMEEMEDMEKKLGPCLQLYVPEVSPESIMECATGKRGTELMHENAQLTDALQPPHEYVPWVLVNEK
PLTDPSQLLSSVCELYQGTEKPDICSSMADAPREVCYK

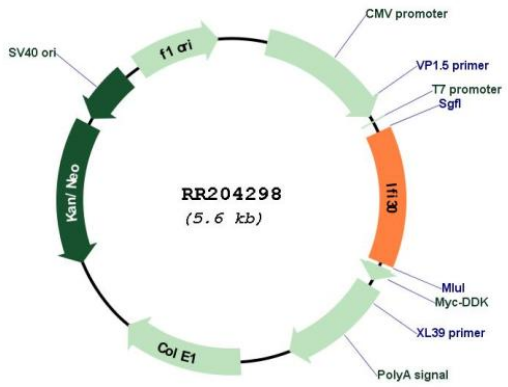
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001030026

ORF Size: 744 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_001030026.1, NP_001025197.1
RefSeq Size:	1333 bp
RefSeq ORF:	747 bp
Locus ID:	290644
UniProt ID:	Q499T2
Cytogenetics:	16p14
MW:	27.6 kDa
Gene Summary:	Lysosomal thiol reductase that can reduce protein disulfide bonds. May facilitate the complete unfolding of proteins destined for lysosomal degradation. Plays an important role in antigen processing. Facilitates the generation of MHC class II-restricted epitodes from disulfide bond-containing antigen by the endocytic reduction of disulfide bonds. Facilitates also MHC class I-restricted recognition of exogenous antigens containing disulfide bonds by CD8+ T-cells or crosspresentation (By similarity).[UniProtKB/Swiss-Prot Function]