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Product datasheet for RC219434

FUT8 (NM_004480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUT8 (NM_004480) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FUT8
Synonyms:	CDGF; CDGF1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC219434 representing NM_004480 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACGGATCTATACTACCTCAGTCAGACAGATGGAGCAGGTGATTGGCGGGAAAAAGAGGCCAAAGATC TGACAGAACTGGTTCAGCGGAGAATAACATATCTTCAGAATCCCAAGGACTGCAGCAAAGCCAAAAAGCT GGTGTGTAATATCAACAAAGGCTGTGGCTATGGCTGTCAGCTCCATCATGTGGTCTACTGCTTCATGATT GCATATGGCACCCAGCGAACACTCATCTTGGAATCTCAGAATTGGCGCTATGCTACTGGTGGATGGGAGA CTGTATTTAGGCCTGTAAGTGAGACATGCACAGACAGATCTGGCATCTCCACTGGACACTGGTCAGGTGA AGTGAAGGACAAAAATGTTCAAGTGGTCGAGCTTCCCATTGTAGACAGTCTTCATCCCCGTCCTCCATAT TTACCCTTGGCTGTACCAGAAGACCTCGCAGATCGACTTGTACGAGTGCATGGTGACCCTGCAGTGTGGT GGGTGTCTCAGTTTGTCAAATACTTGATCCGCCCACAGCCTTGGCTAGAAAAAGAAATAGAAGAAGCCAC CAAGAAGCTTGGCTTCAAACATCCAGTTATTGGAGTCCATGTCAGACGCACAGACAAAGTGGGAACAGAA GCTGCCTTCCATCCCATTGAAGAGTACATGGTGCATGTTGAAGAACATTTTCAGCTTCTTGCACGCAGAA TGCAAGTGGACAAAAAAAGAGTGTATTTGGCCACAGATGACCCTTCTTTATTAAAGGAGGCAAAAACAAA GTACCCCAATTATGAATTTATTAGTGATAACTCTATTTCCTGGTCAGCTGGACTGCACAATCGATACACA GAAAATTCACTTCGTGGAGTGATCCTGGATATACATTTTCTCTCTCAGGCAGACTTCCTAGTGTGTACTT TTTCATCCCAGGTCTGTCGAGTTGCTTATGAAATTATGCAAACACTACATCCTGATGCCTCTGCAAACTT CCATTCTTTAGATGACATCTACTATTTTGGGGGCCAGAATGCCCACAATCAAATTGCCATTTATGCTCAC CAACCCCGAACTGCAGATGAAATTCCCATGGAACCTGGAGATATCATTGGTGTGGCTGGAAATCATTGGG ATGGCTATTCTAAAGGTGTCAACAGGAAATTGGGAAGGACGGGCCTATATCCCTCCTACAAAGTTCGAGA GAAGATAGAAACGGTCAAGTACCCCACATATCCTGAGGCTGAGAAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

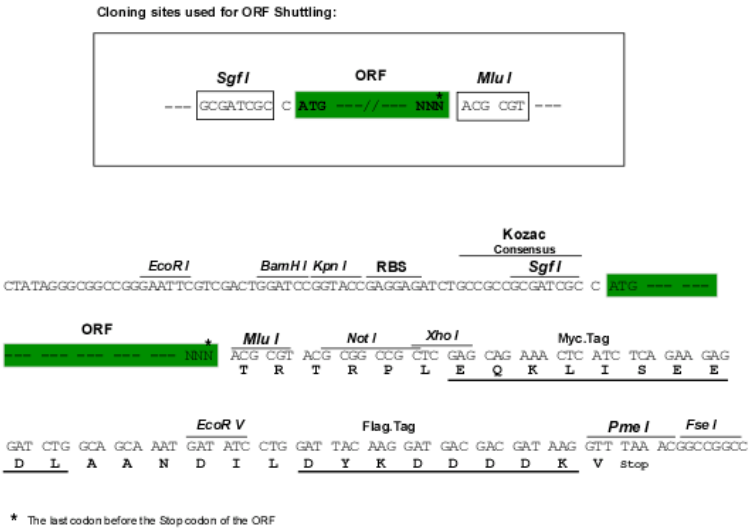
>RC219434 representing NM_004480
Red=Cloning site Green=Tags(s)

MTDLYYLSQTDGAGDWREKEAKDLTELVQRRITYLQNPKDCSKAKKLVCNINKGCGYGCQLHHVVYCFMI
AYGTQRTLILESQNWRYATGGWETVFRPVSETCTDRSGISTGHWSGEVKDKNVQVVELPIVDSLHPRPPY
LPLAVPEDLADRLVRVHGDPAVWWVSQFVKYLIRPQPWLEKEIEEATKKLGFKHPVIGVHVRRTDKVGTE
AAFHPIEEYMVHVEEHFQLLARRMQVDKKRVYLATDDPSLLKEAKTKYPNYEFISDNSISWSAGLHNRYT
ENSLRGVILDIHFLSQADFLVCTFSSQVCRVAYEIMQTLHPDASANFHSLDDIYYFGGQNAHNQIAIYAH
QPRTADEIPMEPGDIIGVAGNHWDGYSKGVNRKLGRTGLYPSYKVREKIETVKYPTYPEAEK

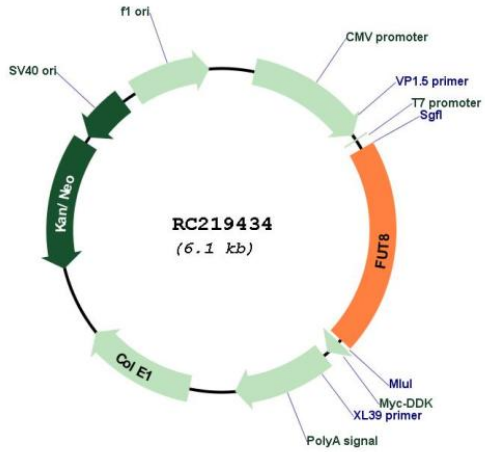
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004480

ORF Size:	1236 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_004480.4, NP_004471.4
RefSeq Size:	4749 bp
RefSeq ORF:	1239 bp
Locus ID:	2530
UniProt ID:	Q9BYC5
Cytogenetics:	14q23.3
Domains:	SH3
Protein Families:	Transmembrane
Protein Pathways:	Keratan sulfate biosynthesis, Metabolic pathways, N-Glycan biosynthesis
MW:	47.3 kDa
Gene Summary:	This gene encodes an enzyme belonging to the family of fucosyltransferases. The product of this gene catalyzes the transfer of fucose from GDP-fucose to N-linked type complex glycopeptides. This enzyme is distinct from other fucosyltransferases which catalyze alpha1-2, alpha1-3, and alpha1-4 fucose addition. The expression of this gene may contribute to the malignancy of cancer cells and to their invasive and metastatic capabilities. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2011]