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Product datasheet for SC109248

FUT8 (NM_004480) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUT8 (NM_004480) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUT8
Synonyms:	CDGF; CDGF1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC109248 sequence for NM_004480 edited (data generated by NextGen Sequencing)

ATGACGGATCTATACTACCTCAGTCAGACAGATGGAGCAGGTGATTGGCGGGAAAAAGAG
GCCAAAGATCTGACAGAACTGGTTCAGCGGAGAATAACATATCTTCAGAATCCCAAGGAC
TGCAGCAAAGCCAAAAAGCTGGTGTGTAATATCAACAAAGGCTGTGGCTATGGCTGTCAG
CTCCATCATGTGGTCTACTGCTTCATGATTGCATATGGCACCCAGCGAACACTCATCTTG
GAATCTCAGAATTGGCGCTATGCTACTGGTGGATGGGAGACTGTATTTAGGCCTGTAAGT
GAGACATGCACAGACAGATCTGGCATCTCCACTGGACACTGGTCAGGTGAAGTGAAGGAC
AAAAATGTTCAAGTGGTCGAGCTTCCCATTGTAGACAGTCTTCATCCCCGTCCTCCATAT
TTACCCTTGGCTGTACCAGAAGACCTCGCAGATCGACTTGTACGAGTGCATGGTGACCCT
GCAGTGTGGTGGGTGTCTCAGTTTGTCAAATACTTGATCCGCCCACAGCCTTGGCTAGAA
AAAGAAATAGAAGAAGCCACCAAGAAGCTTGGCTTCAAACATCCAGTTATTGGAGTCCAT
GTCAGACGCACAGACAAAGTGGGAACAGAAGCTGCCTTCCATCCCATTGAAGAGTACATG
GTGCATGTTGAAGAACATTTTCAGCTTCTTGCACGCAGAATGCAAGTGGACAAAAAAAGA
GTGTATTTGGCCACAGATGACCCTTCTTTATTAAAGGAGGCAAAAACAAAGTACCCCAAT
TATGAATTTATTAGTGATAACTCTATTTCCTGGTCAGCTGGACTGCACAATCGATACACA
GAAAATTCACTTCGTGGAGTGATCCTGGATATACATTTTCTCTCTCAGGCAGACTTCCTA
GTGTGTACTTTTTCATCCCAGGTCTGTCGAGTTGCTTATGAAATTATGCAAACACTACAT
CCTGATGCCTCTGCAAACTTCCATTCTTTAGATGACATCTACTATTTTGGGGGCCAGAAT
GCCCACAATCAAATTGCCATTTATGCTCACCAACCCCGAACTGCAGATGAAATTCCCATG
GAACCTGGAGATATCATTGGTGTGGCTGGAAATCATTGGGATGGCTATTCTAAAGGTGTC
AACAGGAAATTGGGAAGGACGGGCCTATATCCCTCCTACAAAGTTCGAGAGAAGATAGAA
ACGGTCAAGTACCCCACATATCCTGAGGCTGAGAAATAA

Clone variation with respect to NM_004480.4

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004480 unedited
GTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCACTGCTCAGGGTCGC
GCGCCCTGGACCCAGCTCGCTCTCGGTCTCGCGCTGTCAGCGACTGCCCGGCTCGCGCCG
CCTCGCGCTCTGCCTCAGTCAGTGGCGCCGAAGGCTCCGTTAAGCGGCGGCGGCGGTTCC
TGTTTCCGTTTCTTCCTCTCCGTTCGGTCGGGAGTAGCATCCTCCACTCAGCCACCCTTC
CCACTCCCCCATCGTGGGGCAGCTGCGGCTGAGGGCTGTGGCTTTGGCAGCTGCGACGGG
GAGCGGCGGAGACCGCCTCTGCTCCCGCCTGGGGTTGCTGCTTTTGCTCAGAGGACATCC
ATGACCCTAATGGTCTTTTTGTTCAAGATAAAGTGATTTTTTGCCTTTGTTGATTAACTG
GACAAATTCAGCATGTAGAGCGCATGAAGTACAGGACAATAAAGCTTCCTACACATATCA
CCAGGAGGATCTCTTTGAAAGATTCACTGCAGGACTACCAGAGAGAATAATTTGTCTGAA
GCATCATGTGTTGAAACAACAGAAGTCTATTCACCTGTGCACTAACTAGAAACAGAGTTA
CAATGTTTTCAATTCTTTGAGCTCCAGGACTCCAGGGAAGTGAGTTGAAAATCTGAAAAT
GCGGCCATGGACTGGTTCCTGGCGTTGGATTATGCTCATTCTTTNTGCCTGNGGGACCCT
TGCTGTTTTATATANGGTGGTCACTTTGGTACGAGATAATGACCATNCTGATCACTCTAG
CCGAGAACTGTNNCAAGATCTGGNCAAGCTNGAACGCTTNANACAGCAGAATGAAGACTT
TGAGCGAATGGCCCGAATCTCTNCCGATACCANAAGGCCCTATTGATCAGGNGCCAGCTA
TAAGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004480 unedited
GCCGCAATCTAGAGTCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTTTTAAAA
ATTAATTTTTTGTTATCAAAAAAAATGTCCAAAAACATTGAGTACTAAAAAATTTGTTCA
TGGCATTGTTTTACAAAATTTTCTAATGGAAAGGGAATATTTTATTTTCTGATGTATTCT
TCACTTATTAATGATGAGGTCAATGAACTGATGCAATTATTTAAAAAAAAAAAAACAGAC
ACCCTTTTAAGGGAAAAACCAAAACCAAAACCAAAAAAAACCCAACCGTCCATTCTCATT
CTGAATCTGTTGACTGGAGTGAATTCAGGGGTCACAATACCCCCATCAAATAAAAATCAA
CTTCCTCAAAGTAAGGAGCTGTTCCGATCTTCTCAATAGTTCACACAGGTCTCTCAAATA
TAGGCACCATGTTTTAAGTCTCACACAAAATGTCTGTGTCACTTAAATTACACAATATGG
CAGTGTTTGTCTTATGGGGACATACTGAAAGGGGCAAAGTAAAAAACAACCTGTTTGCAT
GTTATATGTGAGTACATTATTGAACTGTGCATGGGTATGAGGGCATTGCACCCCTTGTTA
AAGAGGAATTCCACCAATTGAAGCCTATGTCAGTTCCCAGCTGCTCTTGGTGCTGAGAGT
ATCTACTCATATAACCTTATTTTGTTAGATCAAAACCCTCTTCATCTACAGTTTGGCTGA
AATGGTTTGAACTGAGTTTGGCAAACTGAGTTTGCCCGTTATCTCTTCCTCTGAGCTTAT
TCTCACCCTCAGATTGGGGGGACTGACCGTTTTATCTTTTTAAACTTGAAGAGGATATAG
CCCGTCTTCCAATTCTTGTGCCCCTTAAAAACCTCCCATGTTTCCACCCCCAAGATTCCC
GGTCCTGAATTTTTTCCTTCGGGTGGGGCCATAAGGCATGT

Restriction Sites: NotI-NotI

ACCN: NM_004480

Insert Size: 3000 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:	NM_004480.3, NP_004471.3
RefSeq Size:	2963 bp
RefSeq ORF:	1341 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
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] Transcript Variant: This variant (4) lacks a portion of the 5' UTR and 5' coding region, and uses a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: The coding region has been updated to represent an alternative splicing pattern that is more supported by the available transcript and protein data.