

Product datasheet for **RG215440**

FUT8 (NM_178156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUT8 (NM_178156) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FUT8
Synonyms:	CDGF; CDGF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215440 representing NM_178156
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGCCATGGACTGGTTCCTGGCGTTGGATTATGCTCATTCTTTTGCCTGGGGACCTTGCTGTTTT
 ATATAGGTGGTCACTTGGTACGAGATAATGACCATCCTGATCACTCTAGCCGAGAAGTGTCCAAGATTCT
 GGCAAAGCTTGAACGCTTAAAACAACAGAAATGAAGACTTGAGGCGAATGGCCGAATCTCTCCGGATACCA
 GAAGGCCCTATTGATCAGGGGCCAGCTATAGGAAGAGTACGCGTTTTAGAAGAGCAGCTTGTAAAGGCCA
 AAGAACAGATTGAAAATACAAGAAACAGACCAGAAATGGTCTGGGGAAGGATCATGAAATCCTGAGGAG
 GAGGATTGAAAATGGAGCTAAAGAGCTCTGTTTTTCTACAGAGTGAATTGAAGAAATTAAGAACTTA
 GAAGGAAATGAATCCAAAGACATGCAGATGAATTTCTTTGGATTTAGGACATCATGAAAGGTCTATAA
 TGACGGATCTATACTACCTCAGTCAGACAGATGGAGCAGGTGATTGGCGGAAAAAGAGGCCAAAGATCT
 GACAGAAGTGGTTCAGCGGAGAATAACATATCTTCAGAATCCCAAGGACTGCAGCAAAGCCAAAAAGCTG
 GTGTGTAATATAACAAAGGCTGTGGCTATGGCTGTCAGCTCCATCATGTGGTCTACTGTTTCATGATTG
 CATATGGCACCCAGCGAACACTCATCTTGAATCTCAGAATTGGCGCTATGCTACTGGTGGATGGGAGAC
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 AAGAAGCTTGGCTCAAACATCCAGTTATTGGAGTCCATGTCAGACGCACAGACAAAGTGGGAACAGAAG
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 AAAATTCACTTTCGTGGAGTGATCCTGGATATACATTTTCTCTCAGGCAGACTTCTAGTGTGACTTTT
 TTCATCCAGGTCTGTCGAGTTGCTTATGAAATATGCAAACACTACATCCTGATGCCTCTGCAAATTC
 CATTCTTTAGATGACATCTACTATTTTGGGGCCAGAATGCCACAATCAAATTGCCATTTATGCTCACC
 AACCCCGAAGTGCAGATGAAATCCCATGGAACCTGGAGATATCATTGGTGTGGCTGGAATCATTGGGA
 TGGCTATTCTAAAGGTGTCAACAGGAAATGGGAAGGACGGCCATATCCCTCTACAAAGTTCGAGAG
 AAGATAGAAACGGTCAAGTACCCACATATCCTGAGGCTGAGAAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215440 representing NM_178156
 Red=Cloning site Green=Tags(s)

MRPWTGSWRWIMLILFAWGTLIFYIGGHLVRDNDHPDHSSRELSKILAKLERLKQQNEDLRRMAESLRIP
 EGPIDQGPAIGRVRVLEEQLVKAKEQIENYKQTRNGLGKDHEILRRRIENGAKELEWFFLQSELKKLKNL
 EGNELQRHADEFLLDLGHHERSIMTDLYLSQTDGAGDWREKEAKDLTELVQRRITYLQNPKDCSKAKKL
 VCNINKGCGYGCQLHHVVYCFMIAYGTRTLILESQNWRYATGGWETVFRPVSETCTDRSGISTGHWSGE
 VKDKNVQVVELPIVDSLHPRPPYLPLAVPEDLADRLVRVHGDPVWVWSQFVKYLIRPQPWLEKEIEEAT
 KKLGFKHPVIGVHVRRTDKVGTEAAFHPIEEYMHVVEEHFQLARRMQVDKRVYLATDDPSLLKEAKTK
 YPNYEFISDNSISWSAGLHNRYTENSLRGVILDIHFLSQADFLVCTFSSQVCRVAYEIMQTLHPDASANF
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 KIETVKYPTYPEAEK

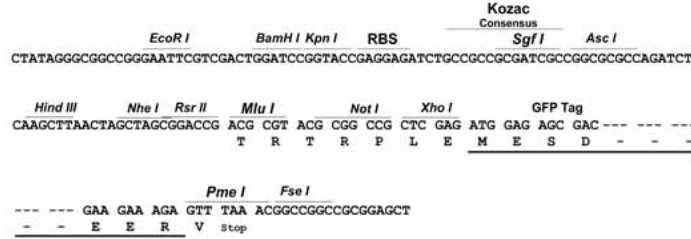
SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

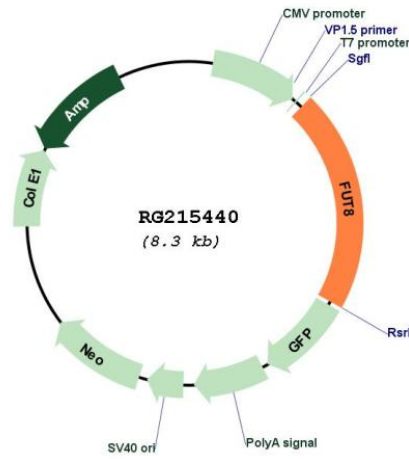
SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_178156
 ORF Size: 1725 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:	<ol style="list-style-type: none">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_178156.2 , NP_835369.1
RefSeq Size:	3677 bp
RefSeq ORF:	1728 bp
Locus ID:	2530
UniProt ID:	Q9BYC5
Cytogenetics:	14q23.3
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]