

## Product datasheet for **RR213948**

### Fut4 (NM\_022219) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Fut4 (NM\_022219) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Fut4  
 Synonyms: Fuct  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR213948 representing NM\_022219  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCGGCCGGCGAAAGCTACAGCATGAGAGCCGGTGCCGCCCTCACGGCCCGTGGACGCGTGCC  
 GAGCCCGCGGACCACTCGTGGGCGCTGCATGGGACCCAGGGCCCGCGACGCGCACGGCGCGGAGG  
 CTGGGATTACCCCGACCTCCTCTGGGCTGGCAGCAGCGGGACTACTATGCACCGGTTGACTGCCTGC  
 CTCTGTTGGGGACAGCTGCCGCCGCTGCCCTGGGCGTCCCGAGCCCGCAACGCCCGGTGAGTGTCTGC  
 TCTGGTGGGAACCTTTGGGGGGCGCGCGGCCACTCCAAGCCTCCCCCGATTGCAGCCTGCGCTTCAA  
 CATCAGCGGTGCCGCTTGTCAACGACCGCGCGGCTACGGGGAGGCTCAAGCAGTGTCTTCCACCAC  
 CGCGACCTGGTGAAGGGACCCCCGACTGGCCCCGCGCTGGGGCGCCAAGAACGCACCGATGAGGCTC  
 CGGAGCTACGCGTGTTCGACGACCAGGAGGGAGCGGTGATGCTAGCTAGAGAAGCCCTGGAGACCACAGG  
 CTCTCGTCCCCGGGTGACGGTGGGTGTGGATGAACTTCGAATCACCTCCCACACTCCAGGGCTGCGG  
 GGCTTGCTAAGGACCTTTCAATTGGACTATCCTACCGACCGATTCCGATATCTTCGTGCCATATG  
 GCTTCTCTATCCAGGAGCCATCCAGCCGAACAGCCTTCAGGTCTGGGCCCCCGCTGGCCCGCAAGCG  
 GGGACTGGTGGCTGGTGTGAGCCACTGGAACGAGCGCCAGGCACGGTCCGTTACTACCATCAGCTG  
 AGGCGGCACGTGTCTGTGACGTGTTTGGCCGGCGGGACCCGGACAACAGTGCACGCCGTGCGGTTGC  
 TGCACACGGTGGCCCGCTACAAGTTTTACTGGCGTTTGGAACTCACAGCACGTGGATTACATCACTGA  
 GAAGCTGTGGCGAATGCCTTCTGGCTGGGGCCGTGCCAGTGGTACTTGGTCCCGATCGTGCCAACTAT  
 GAGCGTTCGTGCTCGTGGTTCCTTCCATGTGGATGATTTCCCTAGTGTGCTCCCTGGCTGCCT  
 ACCTGCTCTTCTGGACCGAAACGTGGCTGTCTATCGCCGCTACTTCCACTGGCGTCGGAGCTATGCGGT  
 GCACATCACTTCTTCTGGGATGAGCCATGGTGCCAGACATGCAGGGCCGTCCAGACCTCTGGGGACCAG  
 CCCAAGAGTATCCACAACCTTGGCAGACTGTTCCAGCGA

AC**GGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAA  
 TTACAAGGATGACGACGATAAGGTTTAA



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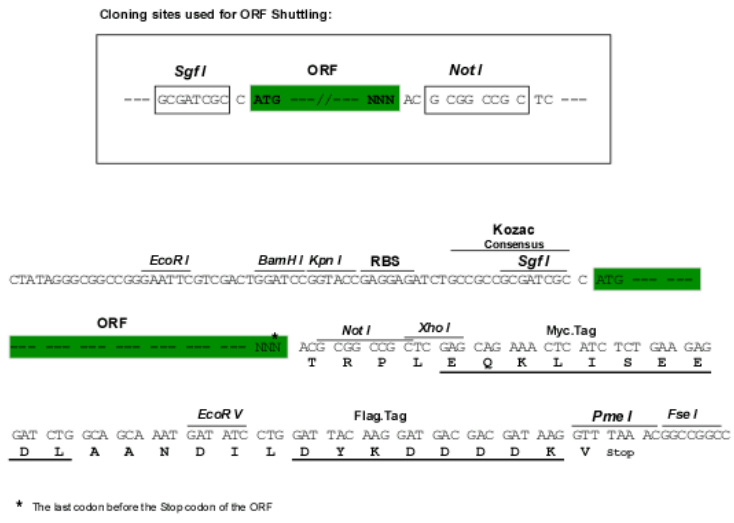
**Protein Sequence:** >RR213948 representing NM\_022219  
Red=Cloning site Green=Tags(s)

MAPAGRKLQHESRCRPSRPVDAWRAAATTRGRCMGTGARRRARRGGWGLPRTSSGLAAAGLLCTALTAC  
 LCWQQLPPLPWASPAQRPVSVLLWPEFGGRRGHSKPPDCSLRFNISGCRLTDRAAAYGEAQAVLFHH  
 RDLVKGPPDWPPPWAQERTDEAPELRVFDQEGAVMLAREALETTGSRPPGQRVWVMNFESPSTHPGLR  
 GLAKDLFNWTL SYRTDSDIFVPYGFLYPRSHPAEQPSGLGPPLARKRGLVAWVVS HWNERQARVRYHHQL  
 RRHVSVDVFGRAGPGQPVPAVGLLHTVARYK FYLAFENSQHVDYITEKLWRNAFLAGAVPVVLGPDRANY  
 ERFVPRGSFIHVDDFPSAASLAAYLLFLDRNVAVYRRYFHWRRSYAVHITSFWDEPWCQTCRAVQTSGDQ  
 PKSIHNLADWFQR

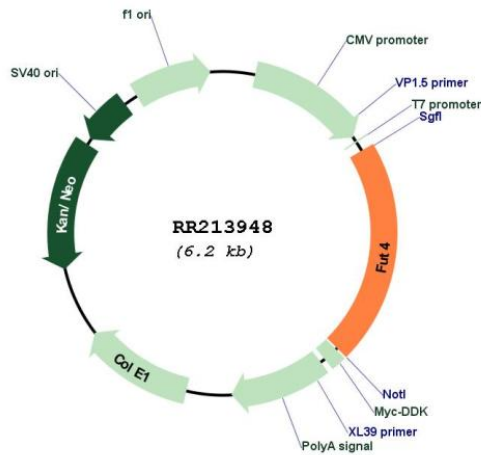
TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-NotI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_022219

<b>ORF Size:</b>	1299 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022219.3</a> , <a href="#">NP_071555.3</a>
<b>RefSeq Size:</b>	3962 bp
<b>RefSeq ORF:</b>	1302 bp
<b>Locus ID:</b>	60670
<b>Cytogenetics:</b>	8q12
<b>MW:</b>	48.9 kDa
<b>Gene Summary:</b>	displays fucosyltransferase activity for type 2 (Gal beta1-->GlcNac)-containing oligosaccharides and neolactotetraosylceramide [RGD, Feb 2006]