

Product datasheet for **RR206462**

Pofut1 (NM_001002278) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pofut1 (NM_001002278) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pofut1
Synonyms:	Fut12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206462 representing NM_001002278 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCGCCGCGTGGGCACCGTCACACCTGCTGCTGCGGGCGTCTTTCTGCTTCTGCTGCTGTTGC
TGCCGCTGCCGCTCCGCGGGCGGGGGGCTCCTGGGATCTGGCCGGTACCTGCTCTACTGTCCCTG
CATGGGGCGCTTTGGGAACCAGGCTGATCACTTCTGGGCTCTCTGGCATTGCAAAGCTGCTGAACCGC
ACCTTGGCTGTACCTCCATGGATTGAGTACCAACATCACAAGCCTCCCTTACCAACCTCCATGTGTCTT
ACCAAAAGTACTTCAAACCTGGAGCCTCTCCAAGCCTACCATCGGGTTATCAGCCTGGAGGACTTCATGGA
AAAGCTGGCACCCCTTCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGA
AGTCTGTATAAGAAGACATGTCCATGAAGGAAGGAAATCCTTTTGGGCCATTCTGGGACCAGTTTCATG
TGAGTTTCAATAAGTCAGAGTTGTTACAGGCATTTCTTCAGCGCCTCTACAAAGAACAATGGATCCA
GAGATTTCTCCAAGGAGCATCCAGTGTCTGCACTACCGGGGGCCCCAGCCCAATTCCTCGTCTGGAG
GAGCACAGGGAATCCAGAAGTACATGGTATGGTCAGATGAGATGGTGGGACAGGAGAGGCCAGATCA
GTACCCACCTCGTCCGGCCCTATGTGGCATTCTGCGCATTGGCTCCGACTGGAAGAATGCCGTGTGC
CATGTTGAAGGATGGGACTGCAGGGTCACACTTCATGGCTTCCCTCAGTGTGTGGGCTACAGCCGACG
ACAGCGACTCCCCTCACCCTACCATGTGCTCCTCCCGACCTGAAGGAAATCCAACGGGCTGTGAAGCTTT
GGGTGAGAGCACTGGATGCCAGGTGGTCTACATCGCCACAGACTCTGAGAGCTATGTGTGAGAGATCCA
GCAGCTTTCAAAGAGAAGGTGAAGTTGTGAGCCTGAAACCCGAGGTGGCCAGATTGACCTGTACATC
CTCGGTGAGGCTGACCACTTCATTGAAACTGTGTCTCCTCATTCACTGCCTTCGTGAAGCGGGAGCGGG
ACCTCCATGGGAGGCCGTCATCTTCTTTGGCATGGACAGACCCTCCAGCTTCGGGATGAATTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206462 representing NM_001002278
 Red=Cloning site Green=Tags(s)

MGAAAWAPSHLLLRSFLLLLLLLLPLPLRGRAGGSWDLAGYLLYCPCMGRFGNQADHFLGSLAFKLLNR
 TLAVPPWIEYQHKKPPFNLHVSYQKYFKLEPLQAYHRVISLEDFMEKLAPFHWPPEKRVAYCFEVAQR
 SPDKKTCPMKEGNPFGPFWDQFHVSFNKSELTGIFSASYSKEQWIRFPPEKHPVLALPGAPAQFPVLE
 EHRELQKYMVWSDDEMVRTGEAQISTHLVRPYVGIHLRIGSDWNACAMLDKGTAGSHFMA SPQC VGYSRS
 TATPLTTMCLPDLKEIQRAVKLWYRALDARSVYIATDSESYVSEIQQLFKEKVKVYVSLKPEVAQIDLYI
 LGQADHFIGNCVSSFTAFVKRERDLHGRPSSFFGMDRPSQLRDEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

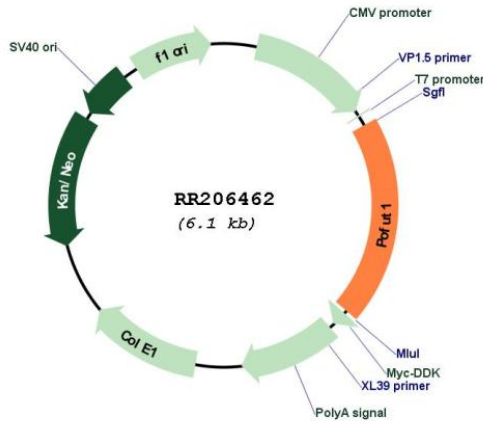
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001002278

ORF Size:	1185 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_001002278.1 , NP_001002278.1
RefSeq Size:	1188 bp
RefSeq ORF:	1188 bp
Locus ID:	311551
UniProt ID:	Q6EV70
Cytogenetics:	3q41
MW:	45 kDa
Gene Summary:	may act as a fucosyltransferase [RGD, Feb 2006]