

Product datasheet for **RC234650**

TUG (ASPCR1) (NM_001251888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUG (ASPCR1) (NM_001251888) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TUG
Synonyms:	ASPCR1; ASPL; ASPS; RCC17; TUG; UBXD9; UBXN9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC234650 representing NM_001251888
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCCCGCAGGCGCGGAGGCTCCGCGTGTGCTGGCCCCGAACGGCCGGCCACACGG
 TGAAGGTGACGCCGAGCACCGTCTGCTTCAGGTTCTGGAGGACACGTGCCGGCGCAGGACTTCAACCC
 CTGTGAATATGATCTGAAGTTTCAGAGGAGCGTCTCGACCTTTCTCTCCAGTGGAGATTTGCCAACCTG
 CCCAACATGCCAAGCTGGAGATGGTGCCCGCTTCCCGGAGCCGTGAGGGGCTGAGAACATGGTTCGCA
 TCGCTTTGACGCTGGACGATGGCTCGAGGTTGCAGGACTCTTTCTGTTCCAGGCCAGACCTCTGGGAGCT
 TCTCAGCCATTTCCACAGATCAGGGAGTGCCTGCAGCACCCGGCGGGGCCACCCAGTCTGCGTGTAC
 ACGAGGGATGAGGTGACGGTGAAGCTGCCCTGCGGGGCACGACGCTGCAGTCGCTGGCCCTGACCGGG
 GCAGCGCCACCATCAGGTTTGTGATGAAGTGTACGACCCCGTGGCAAGACCCAGGAAGCCTGGGCTC
 GTCAGCGTCGGCTGGCCAGGCGCCAGCGCTCCACTTCCCTTGAATCTGGGGAGCTCAGCCGCGGC
 GACTTGAGCCGTCGGGAGGACGCGGACACCTCAGGGCCCTGCTGCGAGCACACTCAGGAGAAGCAGAGCA
 CAAGGGCACCCGAGCTGCCCCCTTTGTTCTTTCTCGGGTGGGGACAGAGACTGGGGGGCCCTCTGG
 GCCACGAGGCCCTCTGACATCATCTTACGCTAAGTTGCCGAAGTCCCTCTCCAGCCCTGGAGGCCCTCC
 AAGCCAAAGAAGTCCAAGTCGGGCCAGGATCCCCAGCAGGAGCAGGAGCAGGAGCGGGAGCGGGATCCCC
 AGCAGGAGCAGGAGCGGGAGCGGCCCGTGGACCGGAGCCCGTGGACCGGAGCCGGTGGTGTGCCACCC
 CGACCTGGAGGAGCGGCTGCAGGCTGGCCAGCGGAGCTGCCTGATGAGTTCTTTGAGCTGACGGTGGAC
 GACGTGAGAAGACGCTTGGCCAGCTCAAGAGTGAGCGGAAGCGCTGGAAGAAGCCCCCTTGGTGACCA
 AGGCCTTCAGGGAGGCGCAGATAAAGGAGAAGCTGGAGCGCTACCCAAAGGTGGCTCTGAGGGTCTGTT
 CCCCAGCCGCTACGTCTACAGGCTTCTTCCGCCCCAGCGAGACAGTGGGGGACTTGCAGACTTCGTG
 AGGAGCCACCTGGGAACCCCGAGCTGTATTTACCTGTTTCATCACCCCTCCAAAAACAGTCTGGACG
 ACCACACGCAGACCCTCTTTAGCCCCAGCTTGGTGACCGGGTGGCTCCATTACCCCTGGGTCCCTCGCT
 GAAACGGTGCCTGGGACCAGAGCAGAGAACACGCTTGCCAGTGGTAGGAGATGGAGGCGACGTGGACTCT
 GGGAGGCTTCTTTTTGGGGTCCATCCAGAGGCCGAGCCTCTCCAAGCACTGGTCAAGCTCCATGCCACC
 CAGTCTGCCGACCCTCTCTCCACCATCCCTCGTCCGAGCAGTGGCGATCCCTCCCGAGTCAAGGCTGG
 GCACAAGCACGTGGGGACAGGCCGGCGAACCTCTTCCCGCCGCTCTGGTGCACCTGGGAGCCGAGGAG
 CCGGCAGGTGTCTACCTGGAGCCTGGCCTGCTGGAGCATGCCATCTCCCATCTGCGGCCGATGTGCTGG
 TGCCAGGTACATGTCCAGGGCCCGGGTCCCTTCCCATTGCCAGCCCTGACCTGCACCTAAGTC
 TGAGCCAGCTGCTGAGGAGGGGGCGCTGGTCCCCCTGAGCCCATCCAGGGACGGCCAGCCCGTGAAG
 AGGAGCCTGGCAAGGTGCCAAGTGGCTGAAGCTGCCGGCCAGCAAGAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234650 representing NM_001251888
Red=Cloning site Green=Tags(s)

MAAPAGGGGSAVSVLAPNGRRHTVKVTPSTVLLQVLEDTCRRQDFNPCEYDLKFQRSVLDLSLQWRFANL
 PNNAKLEMVPASRSREGPENMVRIALQLDDGSRLLQDSFCSGQTLWELLSHFPQIRECLQHPGGATPVCVY
 TRDEVTEAALRGTTLQSLGLTGGSATIRFVMKCYDPVGKTPGSLGSSASAGQAAAASAPLPLESGELSRG
 DLSRPEDADTSGPCCEHTQEKQSTRAPAAAPFVFPFSGGGQRLGGPPGPTRPLTSSSAKLPKLSLSPGGPS
 KPKKSKSGQDPQQEQEQERERDPQQEQERERPVDPREPVDREPVVCHPDLEERLQAWPAELPDEFFELTVD
 DVRRRLAQLKSERKRLLEAPLVTKAFREAQIKEKLERYPKVALRVLPDRYVLQGGFRPSETVGDRLRDFV
 RSHLGNPELSFYLFITPPKTVLDDHTQTLFQPQLGDRVAPFTLGP SLKRCLGPEQRTPLVVGDDGDDVDS
 GRLLFWGSPRGRASPSTGQPPCHPVCRPSSPPSPRPSSGDP SRVKAGHKHVGTRANL FPAALVHLGAE
 PAGVYLEPGLLEHAISPSAADVLVARYMSRAAGSPSPLPAPDPAPKSEPAEEGALVPPEPIPGTAPVK
 RSLGKVPKWLKLPASKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001251888

ORF Size: 1941 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_001251888.2](#)

RefSeq Size: 2140 bp

RefSeq ORF: 1944 bp

Locus ID: 79058

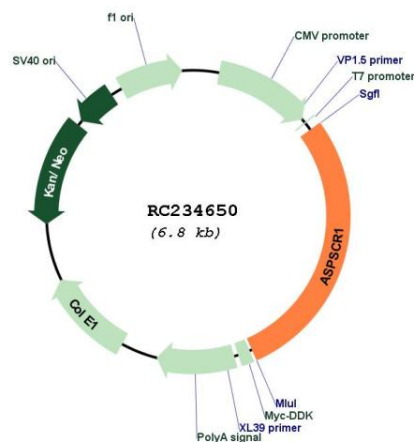
UniProt ID: [Q9BZE9](#)

Cytogenetics: 17q25.3

MW: 70.4 kDa

Gene Summary: The protein encoded by this gene contains a UBX domain and interacts with glucose transporter type 4 (GLUT4). This protein is a tether, which sequesters the GLUT4 in intracellular vesicles in muscle and fat cells in the absence of insulin, and redistributes the GLUT4 to the plasma membrane within minutes of insulin stimulation. Translocation t(X;17) (p11;q25) of this gene with transcription factor TFE3 gene results in a ASPSCR1-TFE3 fusion protein in alveolar soft part sarcoma and in renal cell carcinomas. Multiple alternatively spliced transcript variants have been found. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC234650