

Product datasheet for **RG205817**

TUG (ASPCR1) (NM_024083) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUG (ASPCR1) (NM_024083) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASPCR1
Synonyms:	ASPCR1; ASPL; ASPS; RCC17; TUG; UBXD9; UBXN9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205817 representing NM_024083
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCCGGCGAGGCGGGAGGCTCCGCGGTGTCGGTGCTGGCCCCGAACGGCCGGCCACACGG
 TGAAGGTGACCCGAGCACCCTGCTGCTTCAAGTTCTGGAGGACACGTGCCGGCGCAGGACTTCAACCC
 CTGTGAATATGATCTGAAGTTTCAGAGGAGCGTCTCGACCTTTCTCTCCAGTGGAGATTTGCCAACCTG
 CCCAACATGCCAAGCTGGAGATGGTGCCCGCTTCCCGGAGCCGTGAGGGGCTGAGAACATGGTTCGCA
 TCGCTTTGACAGTGGACGATGGCTCGAGGTTGCAGGACTCTTTCTGTTCCAGGCCAGACCTCTGGGAGCT
 TCTCAGCCATTTCCACAGATCAGGGAGTGCCTGCAGCACCCCGCGGGGCCACCCAGTCTGCGTGTAC
 ACGAGGGATGAGGTGACGGTGAAGCTGCCCTGCGGGGCACGACGCTGCAGTCGCTGGCCCTGACCGGG
 GCAGCGCCACCATCAGGTTTGTGATGAAGTGTACGACCCCGTGGCAAGACCCAGGAAGCCTGGGCTC
 GTCAGCGTCGGCTGGCCAGGCGCCAGCGCTCCACTTCCCTTGAATCTGGGGAGCTCAGCCGCGGC
 GACTTGAGCCGTCGGGAGGACCGGACACCTCAGGGCCCTGCTGCGAGCACACTCAGGAGAAGCAGAGCA
 CAAGGGCACCCGAGCTGCCCCCTTTGTTCTTTCTCGGGTGGGGACAGAGACTGGGGGGCCCTCTGG
 GCCACGAGGCCTCTGACATCATCTTACGTAAGTTGCCGAAGTCCCTCTCCAGCCCTGGAGGCCCTCC
 AAGCCAAAGAAGTCCAAGTCGGGCCAGGATCCCCAGCAGGAGCAGGAGCAGGAGCGGGAGCGGGATCCCC
 AGCAGGAGCAGGAGCGGGAGCGGCCCGTGGACCGGAGCCCGTGGACCGGAGCCGTTGGTGTGCCACCC
 CGACCTGGAGGAGCGGCTGCAGGCTGGCCAGCGGAGCTGCCTGATGAGTTCTTTGAGCTGACGGTGGAC
 GAGCTGAGAAGACGCTTGGCCAGCTCAAGAGTGAGCGGAAGCGCTGGAAGAAGCCCCCTTGGTGACCA
 AGCCCTTCAGGGAGCGCAGATAAAGGAGAAGCTGGAGCGCTACCCAAAGTGGCTCTGAGGGCTCTGTT
 CCCGACCGCTACGTCTACAGGGCTTCTCCGCCAGCGAGACAGTGGGGGACTTGCAGACTTCGTG
 AGGAGCCACCTGGGAACCCGAGCTGTATTTACCTGTTTACACCCCTCCAAAAACAGTCTGGACG
 ACCACACGACACCTCTTTAGGCGAACCTTCCCGGCCGCTCTGGTGCACCTGGGAGCCGAGGAGCC
 GGCAGGTGTCTACCTGGAGCCTGGCTGCTGGAGCATGCCATCTCCCATCTGCGGCCGACGTGCTGGT
 GCCAGGTACATGTCCAGGGCCCGGGTCCCCTTCCCATTGGCAGCCCTGACCCTGCACCTAAGTCTG
 AGCCAGCTGCTGAGGAGGGGCGCTGGTCCCCTGAGCCATCCAGGGACGGCCAGCCCGTGAAGAG
 GAGCCTGGCAAGGTGCCAAGTGGCTGAAGTGCAGCCAGCAAGAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205817 representing NM_024083
 Red=Cloning site Green=Tags(s)

MAAPAGGGGSAVSVLAPNGRRHTVKVTPSTVLLQVLEDTCRRQDFNPCEYDLKFRQSVLDSLQWRFANL
 PNNAKLEMVPASRSREGPENMVRIALQLDDGSRLQDSFCSGQTLWELLSHFQIRECLQHPGGATPVCVY
 TRDEVTGEAALRGTTLQSLGLTGGSATIRFVMKCYDPVGKTPGSLGSSASAGQAAASAPLPLESGELSRG
 DLSRPEDADTSGPCCEHTQEKKSTRAPAAAPFVPFSGGGQRLGGPPGPTPLTSSAKLPKLSLSPGGPS
 KPKKSKSGQDPQQEQEQERERDPQQEQERERPDREPVDPREPVPVCHPDLEERLQAWPAELPDEFFELTVD
 DVRRRLAQLKSERKRLEEAPLVTKAFREAQIKEKLERYPKVALRVLFPDRYVLQGFRRPSETVGDRLDFV
 RSHLGNPELSFYLFITPPKTVLDDHTQTLFQANLFPAALVHLGAEEPAGVYLEPGLLEHAISPSAADVLV
 ARYMSRAAGSPSPLPAPDPAPKSEPAEEGALVPPEPIPGTAQPVKRSLGKVPKWLKLPASKR

TRTRPLE – GFP Tag – V

Restriction Sites:

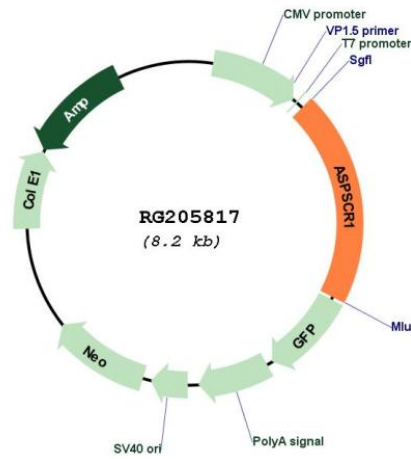
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_024083
ORF Size:	1659 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_024083.2 , NP_076988.1
RefSeq Size:	1858 bp
RefSeq ORF:	1662 bp
Locus ID:	79058
UniProt ID:	Q9BZE9
Cytogenetics:	17q25.3
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]