

Product datasheet for MR211675

Ascc3 (BC059917) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ascc3 (BC059917) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ascc3
Synonyms:	RNAH, ASC1p200, D630041L21
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR211675 representing BC059917 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACAGTTTCTCCCTCATATCAGATTCTGCATATGTCGCCCAGAATGCAGCTAGAATTGTCCGTGCTC
TCTTTGAAATTGCACTGAGGAAACGTTGGCCTACCATGACCTACAGGCTTTTGAATCTTAGTAAAGTCAT
TGACAAGAGACTCTGGGTTGGGCTAGCCCTTTGAGACAATTTCTGTGTTACCACCACACATTCTAACA
AGATTAGAAGAAAAAACCTTACTGTGGATAAACTCAAAGACATGAGAAAAGATGAAATAGGTACACATTT
TGCATCATGTGAATATTGGACTGAAGGTCAAACAGTGTGTTTCATCAAATTCCTTCTGTTACAATGGAAGC
TTCCATTACGCCATCACACGGACTGTCCTCCGAGTACTGAAACATCCACCCTGATTTCTTGGAAAT
GACCAGTTTATGGAACAGTGGGGGAACCATGGTGGATTTGGGTAGAAGATCCTACAAATGACCATATTT
ATCACTCGGAGTACTTTCTAGCTCTTAAAAACAGGTTATTAATAAGGAAGCTCAACTTCTGGTATTTAC
AATTCCTATTTTGGACCTTTGCCCTCTCAGTACTACATTCGAGCAGTGTCTGATCGATGGCTAGGAGCT
GAAGCTGTTTGCATTATCAACTTCAACATCTGATTCTACCAGAGAGACATCCTCCCCATACAGAATTAT
TGGACCTTCAACCTTACCAATTACAGCTTTGGGGTCAAAGCATATGAAGCTCTATATAACTTCAGCCA
CTTTAACCTGTACAGACGAGATATTCCACACACTGTATCACACAGACTGTAATGTTCTGCTTGGCGCC
CCCACCGGATCAGGAAAGACAGTTGCAGCTGAACTAGCCATTTTTCAGAGTTTTCAACAAATATCCTACTT
CAAAGGCAGTATATTTGCACCCCTCAAAGCTCTAGTACGTGAAAGAATGGATGATTGGAAAATTAGGAT
AGAAGAAAAAATTGGTAAAAAAGTTATTGAACTAACTGGGGATGTGACTCCAGACATGAAATCCATTGCT
AAGGCTGACCTTATTGTCACCACACCAGAAAAGTGGGATGGAGTTAGTCGAAGCTGGCAGAATAGAAGCT
ATGTTTCAGCAGGTCACATTTCTCATCATAGATGAGATCCATCTGCTAGGGGAGGAGAGAGGCCAGTTTT
AGAAGTCATTGTATCTCGAACAACTTTATCTCATCACACAGAAAAACCAGTTAGAATAGTTGGACTG
TCCACTGCATTAGCTAATGCTAGAGATCTTGTGACTGGCTCAACATTAAGCAGATGGGTTTGTTTAACT
TCCGACCATCAGTTCCGCCAGTTCCACTGGAAGTTCACATTCAGGGTTTCCCAGGACAACATTACTGCC
ACGCATGGCTAGTATGAACAAGCCTGCATTTTCAGGCAATTAGAAGTCACTCTCCAGCCAAGCCTGTTTTG
ATATTTGTCTCATCAAGACGTCAAACACGACTTACAGCCTTAGAGTTGATAGCATTTCTGGCCACTGAAG



[View online »](#)

AAGACCCAAAGCAGTGGTTGAATATGGATGAGCAAGAGATGGACAACATCATTGGAACAGTACGAGATTC
 CAACCTCAAGCTGACTCTAGCTTTTGGAAATAGGAATGCATCATGCTGGCCTGCATGAAAGAGACCGAAAA
 ACTGTAGAAGAGCTGTTTGTGAAGTGAAGTTTCAGGTTCTCATTGCTACAAGCACATTAGCATGGGGTG
 TAAACTTTCCAGCACACTTAGTAATTATTAAGGGAAGTGAATATTATGATGGAAGACAAGACGTTATGT
 GGATTTTCCCATCACAGATGTGCTGCAGATGATGGGACGAGCTGGGAGACCTCAGTTTGTGACCCAGGGC
 AAAGCTGAATTCTAGTTCATGATATAAAAAAGATTTTTATAAAAAAGTTTCTTTATGAACCTTTCCAG
 TAGAATCAAGCTTATTAGGAGTGTGTCTGACCACTTAAATGCAGAGATTGCTGGAGTACAATAACATC
 AAAGCAAGATGCAATGGATTATACACCTGGACTTACTTTTTCCGGCGTCTTATCATGAATCCCAGCTAC
 TACAGCTTGGGTGACGTACGCCAGGACTCCATAAACAAGTTCCTGTCACATCTGATTGGGACGTCTCTGG
 TTGAATTGGAGCTTTCCCACTGCATTGAAGTTGGAGAGGATAATCGCACCATTGAACCACTGACATGTGG
 TCTAATTGCCCTCTATTACTATTTGAAGCACAAAAGTGTCAAAATGTTCAAGGACCGTTTGAACCTGAG
 TGCAGCACTGAGGAAGTGTCAATTCTGAGTGTGACAGAAATACACAGACTTACCAGTAAGACACA
 ATGAGGACCATACGAATAATGAATTGGCCAAATGTCTCCATTGAATTAATCCTCATTCTTTGACAG
 CCCTCACACCAAAGCCCATCTCTTGCTCAAGCGCATCTCAGCCGAGCCATGCTGCCCTGCCAGATTAT
 GATACTGATACAAAACAGTCTTAGACCAAGCTCTCAGAGTATGCCAGGCAATGCTGGATGTGGCTGCAA
 GCCAGGGATGGCTAGTGACCGTCTGAATATACCCACCTGATTAGATGGTGTCCAAGCCGATGGCT
 CAAGGACTCTTCTTCTCACAATACAAAACATAGAGCAGCACCACCTTACCTTTTCAGGAAATGGAAG
 CCACCTGTAAGAGCTCACATGTAAGTCCGAACATCCATTGAGTGCCTTCTGAGCTGATCCATGCCCT
 GTGAAGGGAAGGACCATGTGTTCAAGTCCATGGTATAGAAAAGAGTTACAGCCTGCAAAAACAAAGCAGGC
 ATGGAATTTCTTATCTCGCTTCCAGTGATAAATGTTGGCATAAGTGTAAAGGCTCATGGGATGACTTA
 GTTGAAGGACATAATGAAGTCCATCTCAACTCTGACAGCAGACAAACGGGATGAAAACAAATGGATCA
 AGTTGCATGCTGATCAGGAGTATGTCTCAAGTCAAGTACAGAGAGTCCATTTTGGGCTTCCAAAGGG
 AAAACATGAGAATCAGCAGTACTCTCGATTTCCAAAATTAAGAGTGAAGGCTGGTTTTTGTATTA
 GGAGAAGTGGATAAGAGAGAGCTGATGGCTGTAAAACGAGTAGGATTTGTTTCAAGACATCATGATGCTT
 CCATCTCGTTCTTACTCTGAAACACCTGGAAGATATATCTTTACCCTGTATCTCATGAGTACTGTTA
 CCTCGGCTAGACCAGCAGTATGACATTATCTCAATGTCATAAAGCAAAACATTTCTACAAAGGACTCT
 GATGTCTTCACTGACTTGTGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211675 representing BC059917
 Red=Cloning site Green=Tags(s)

MDSFSLISDSAYVAQNAARIVRALFEIALRKRWPTMYRLLNLKVIDKRLWGWASPLRQFSVLPHPHILT
 RLEEKNLTVDKLKDMRKDEIGHILHHVNIGLKVKQCVHQIPSVTMEASIQPIRTRVLRVSLNIHPDFSWN
 DQVHGTVGEPWWIIVEDPTNDHIYHSEYFLALKKQVINKEAQLLVFTIPIFEPLPSQYYIRAVSDRWLGA
 EAVCIINFQHLILPERHPPHTELLDLQPLPITALGCKAYEALYNFSHFNPVQTQIFHTLYHTDCNVLLGA
 PTGSGKTVAEELAIIFRVFNKYPTSKAVYIAPLKALVRERMDWKIRIEEKLGGKVIELTGDVTPDMKSIA
 KADLIVTTPEKWDGVSRSWQNRSYVQVNIILIDEIHLGGERGPVLEIVSRTNFISSHTEKPVRIVGL
 STALANARDLADWLNLIKQMLFNFRPSVRPVPLEVHIQGFPGQHYCPRMASMNKPAFQAIRSHSPAKPVL
 IFVSSRRQTRLTALFLATEEDPKQWLNMQEMDNIIGTVRDSNLKTLAFGIGMHHAGLHERDRK
 TVEELFVNCKVQVLIATSTLAWGNFPAHLVVIKGTVEYDYGKTRRYVDFPIDVLMQMMGRAGRPQFDDQG
 KAVILVHDIKKDFYKKFLYEPFVVESSLLGVLSDHLNAEIAAGTITSKQDAMDYITWYFFRRLIMNPSY
 YSLGDVSQDSINKFLSHLIGQSLVELELSHCIEVGEDNRTIEPLTCGLIASYYYYLKHKTVMFKDRLKPE
 CSTEELLNILSDAEEYTDLPVRHNEHTNNELAKCLPIELNPHSFDSPHTKAHLLQAHLSRAMLPCPDY
 DTDTKTVLDQALRVCQAMLQVAAASQGWLVTVLNIHLIQMVIQGRWLKDSLLTIPNIEQHHLHLFRKWK
 PPVKSSHAKCRTSIECLPELIHACEGKDHVSSMVEKELQPAKTKQAWNFLSRLPVINVGISVKGSWDDL
 VEGHNELSISTLTADKRDENKWIKLHADQEYVLQVSLQRVHFGLPKGKHENHAVTPRFPKLDDEGWFLL
 GEVDKRELMVAVKRVGFVRTHHDASISFFTPETPGRYIFTLYLMSDCYLGLDQQYDIYLNVIKANISTKDS
 DVFTDLSV

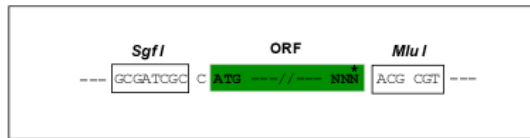
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

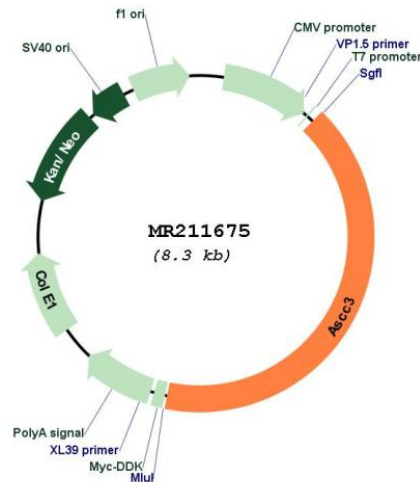
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: BC059917

ORF Size: 3384 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: [BC059917.1](#)

RefSeq Size: 4162 bp

RefSeq ORF: 3386 bp

Locus ID: 77987

Cytogenetics: 10 B3

MW: 152.6 kDa

Gene Summary:

3'-5' DNA helicase involved in repair of alkylated DNA. Promotes DNA unwinding to generate single-stranded substrate needed for ALKBH3, enabling ALKBH3 to process alkylated N3-methylcytosine (3mC) within double-stranded regions. Part of the ASC-1 complex that enhances NF-kappa-B, SRF and AP1 transactivation.[UniProtKB/Swiss-Prot Function]