

Product datasheet for **RG218648**

ARSK (NM_198150) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARSK (NM_198150) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARSK
Synonyms:	TSULF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218648 representing NM_198150
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTACTGCTGTGGGTGTCGGTGGTGCAGCCTTGGCGTGGCGGTACTGGCCCCGGAGCAGGGGAGC
 AGAGGCGGAGAGCAGCCAAAGCGCCAATGTGGTGTGGTGTGAGCGACTCCTTCGATGGAAGGTTAAC
 ATTTTCATCCAGGAAGTCAGGTAGTGAACTTCTTTTATCAACTTTATGAAACACGTGGGACTTCTTTT
 CTGAATGCCTACACAACTCTCCAATTTGTTGCCCATCACGCGCAGCAATGTGGAGTGGCCTTCTCACTC
 ACTTAACAGAATCTTGAATAATTTAAGGGTCTAGATCCAAATTATACAACATGGATGGATGTCATGGA
 GAGGCATGGCTACCGAACACAGAAATTTGGAACTGGACTATACTTCAGGACATCACTCCATTAGTAAT
 CGTGTGGAAGCGTGGACAAGAGATGTTGCTTTCTTACTCAGACAAGAAGGCAGGCCCATGGTTAATCTTA
 TCCGTAACAGGACTAAAGTCAGAGTGTGAAAGGGATTGGCAGAATACAGACAAAGCAGTAACTGGTT
 AAGAAAGGAAGCAATTAATTACTGAACCATTTGTTATTTACTTGGGATTAAATTTACCACACCCTTAC
 CCTTCACCATCTTCTGGAGAAAATTTGGATCTTCAACATTTACACATCTCTTTATTGGCTTGAAAAAG
 TGCTCATGATGCCATCAAAATCCCAAAGTGGTCACCTTTGTGAGAAATGCACCTGTAGATTACTT
 TTCTTATACAAAAACTGCACTGGAAGATTTACAAAAAGAAATTAAGAATATTAGAGCATTATTTAT
 GCTATGTGTGCTGAGACAGATGCCATGCTTGGTGAATATTTTGGCCCTTCATCAATTAGATCTTCTTC
 AGAAAATATTGTCATATACTCCTCAGACCATGGAGAGCTGGCCATGGAACATCGACAGTTTTATAAAAT
 GAGCATGTACGAGGCTAGTGCACATGTTCCGCTTTTGTATGATGGGACCAGGAATTAAGCCGGCCTACAA
 GTATCAAAATGTGGTTTCTCTTGTGGATATTTACCCTACCATGCTTGATATTGCTGGAATTCCTCTGCCTC
 AGAACCTGAGTGGATACTCTTTGTTGCCGTTATCATCAGAAACATTTAAGAATGAACATAAAGTCAAAAA
 CCTGCATCCACCCTGGATTCTGAGTGAATTCATGGATGTAATGTGAATGCCTCCACCTACATGCTTCGA
 ACTAACCACTGGAATATATAGCCTATTCGGATGGTGCATCAATATTGCCTCAACTCTTTGATCTTTCT
 CGGATCCAGATGAATTAACAAATGTTGCTGTAATAATTTCCAGAAATTACTTATTCTTTGGATCAGAAGCT
 TCATTCCATTATAAACTACCCTAAAGTTTCTGCTTCTGTCCACCAGTATAATAAAGAGCAGTTTATCAAG
 TGGAAACAAAGTATAGGACAGAATTATTCAAACGTTATAGCAAATCTTAGGTGGCACCAAGACTGGCAGA
 AGGAACCAAGGAAGTATGAAAATGCAATTGATCAGTGGCTTAAACCCATATGAATCCAAGAGCAGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218648 representing NM_198150
 Red=Cloning site Green=Tags(s)

MLLLWVSVVAALALAVLAPGAGEQRRRAAKAPNVVLVSDSFDGRLTFHPGSQVVKLPFVINFMKTRGTSF
 LNAYTNSPICPSRAAMWSGLFTHLTESWNNFKGLDPNYTTWMDVMERHGYRTQKFGKLDYTSGHHSISN
 RVEAWTRDVAFLLRQEGRPVNLIRNRKVRVMERDQNTDKAVNWLKEAINYTEPFVIYLG LNLPHYPY
 PPSGSGENFGSSTFHTSLYWLEKVSHTDAIKIPKWSPLSEMHPVDYSSYTKNCTGRFTKKEIKNIRAFYY
 AMCAETDAMLGEIILALHQLDLLQKTIVYSSDHGELAMEHRQFYKMSMYEASAHVPLLMMPGPIKAGLQ
 VSNVVSLLVDIYPTMLDIAGIPLPQNLGYSLLPLSSETFKNEHKVKNLHPPWILSEFHGCVNASTYMLR
 TNHWKYIAYS DGASILPQLFDLSSDPDEL TNVAVKFEITYSLDQKLHSIINYPKVSASVHQYNKEQFIK
 WKQSIGQYNSVIANLRWHQDWQKEPRKYENAIQWLKTHMNPRAV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_198150

ORF Size: 1608 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_198150.3](#)

RefSeq Size: 2476 bp

RefSeq ORF: 1611 bp

Locus ID: 153642

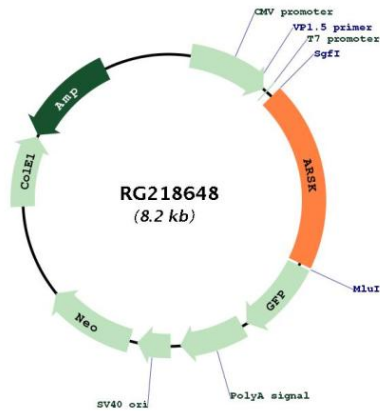
UniProt ID: [Q6UWY0](#)

Cytogenetics: 5q15

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Gene Summary: Sulfatases (EC 3.1.5.6), such as ARSK, hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules (Sardiello et al., 2005 [PubMed 16174644]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG218648