

Product datasheet for **RG214176**

ARSH (NM_001011719) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ARSH
Synonyms:	sulfatase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214176 representing NM_001011719
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACAAGAAACGCCAGACCCAACATTGTCCTGCTGATGGCAGATGACCTTGGAGTGGGGGATTGTGCT
 GCTACGGTAATAACTCAGTGAGCACACCTAATATTGACCGCCTGGCAAGTGAAGGAGTGAGGCTTACCCA
 GCATCTCGCAGCTGCTTCCATGTGCACCCAAGTCGGGCTGCCTTCTGACCGCCGGTACCCCATCAGA
 TCAGGGATGGTGTCTGCCTACAACCTGAACCGTGCCTTACGTGGCTTGGTGGGTGAGTGGTCTTCCCA
 CCAATGAAACGACTTTTGCCAAGCTGCTGCAGCACCGTGGCTACCGCACGGGACTCATAGGCAAAATGGCA
 CCTGGGTTTGAGCTGCGCCTCTCGGAATGATCACTGTTACCAACCGCTCAACCATGGTTTTCTCACTACTTT
 TACGGGTGCTTTTGGACTTTTAAGCGACTGCCAGGCATCCAAGACACCAAGACTGCACCGCTGGCTCA
 GGATCAAACTGTGGATCTCCACGCTAGCCCTTGCCTGGTCTTTCTGCTTCTCATTCCCAAGTTTCGC
 CCGCTGGTCTCAGTGCCATGGAAGGTATCTTTGCTTTGCTCTCCTCGCCTTTCTGTTTTCTACTTCC
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 AGCCAATGAAAGAGGAGAAAGTAGCTTCCCTCATGCTGAAGGAGGCACTGTCTTTCATTGAAAGGTACAA
 AAGGGAACCTTTTCTCTCTTTTTTCTCTCTGCACGTACATACTCCACTCATCTCCAAAAAGAAAGTTT
 GTTGGGCGCAGTAAATATGGCAGGTATGGGACAATGTAGAAGAAATGGATTGGATGGTGGGTAAGTCC
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 GGAGGATGGGAAGGAGGTATCCGTGTGCCAGGGATATCCGGTGGCCGTCAGTCTGGAGGCTGGGAGAG
 TGATCAATGAGCCACAGCTTAATGGACATCTATCCGACGCTGTCTTATAGCGGAGGGATCTTGTCTC
 CCAGGACAGAGTGATTGACGGCCAGAACCTAATGCCCTGCTGGAAGGAAGGGCGTCCCACTCCGACCAC
 GAGTTCCTCTTCCACTACTGTGGGTCTATCTGCACACGGTCAGGTGGCATCAGAAGGACTGTGCAACTG
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 GAAGCCCTTCCACTGAACCTGACCAATGAGCCATTATTTGACTCCGTGATCAAAAAGATGGAGGCGAGCCA
 TAAGAGAGCATCGTAGGACATAACACCTGTCCACAGCAGTTCTCTGTGTTCAACACAATTTGAAACC
 ATGGCTGCAGCCTTGCTGTGGACCTTCCCTTCTGTGGGTGTGACAAGGAAGATGACATCCTTCCCATG
 GCTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

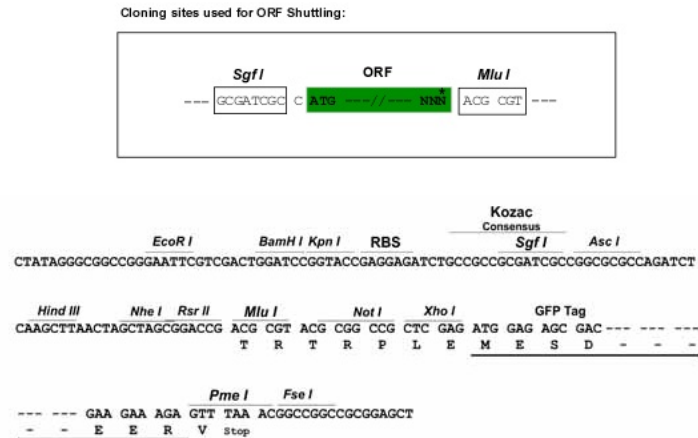
Protein Sequence: >RG214176 representing NM_001011719
 Red=Cloning site Green=Tags(s)

MTRNARNIVLLMADDLGVGDLCCYGNNSVSTPNIDRLASEGVRLTQHLAAASMCPTPSRAAFLTGRYPPIR
 SGMVSAYNLNRAFTWLGGSGGLPTNETTFAKLLQHRGYRTGLIGKWHGLSCASRNDHCYHPLNHGFHYF
 YGVPFGLLSDCQASKTPELHRWLRIKLWISTVALALVPFLLIPKFARWFSVPWKVIFVFALLAFLFFTS
 WYSSYGFTRRWNCILMRNHEIIQQPMKEEKVASLMLKEALAFIERYKREPFLFFSFLHVHTPLISKKKF
 VGRSKYGRYGDNVEEMDMVGKILDALDQERLANHTLVYFTSDNGGHLEPLDGAVQLGGWNGIYKGGKGM
 GGWEGGIRVPGIFRWPSVLEAGRVINEPTSLMDIYPTLSYIGGGILSQDRVIDGQNLMPLEGRASHSDH
 EFLFHYCGVYLHVRWHQKDCATVWKAHYVTPKFYPEGTGACYGSGICSCSGDVYHDPPLLFDISRDPS
 EALPLNPDNEPLFDSVIKKMEAAIREHRTLTPVPQQFSVFNTIWKPWLPCCGTFPFCGCKEDDILPM
 AP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001011719

ORF Size: 1686 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.

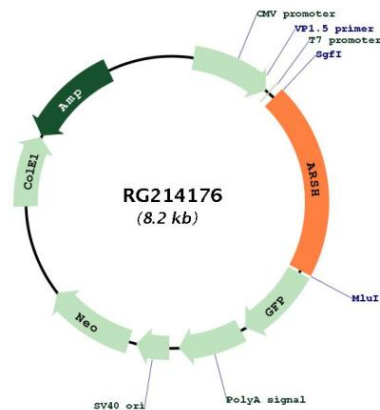
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001011719.2](#)

RefSeq Size: 1689 bp

RefSeq ORF:	1689 bp
Locus ID:	347527
UniProt ID:	Q5FYA8
Cytogenetics:	Xp22.33
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Sulfatases, such as ARSH, 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 RG214176