

Product datasheet for **RC232997**

ARSF (NM_001201539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARSF (NM_001201539) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARSF
Synonyms:	ASF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC232997 representing NM_001201539.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGCCCAGGAGACCCTTGGTCTTCATGTCTTTGGTGTGTGCACTCTTGAACACATGCCAGGCACAC
AGGGTGCCATGACGACAAGCCTAATATTGTCTAATCATGGTTGATGACCTGGGTATTGGAGATCTGGGC
TGCTACGGCAATGACACCATGAGGACGCCTCACATCGACCGCCTTGCCAGGGAAGGCGTGCGACTGACT
CAGCACATCTCTGCCGCCTCCCTCTGCAGCCCAAGCCGGTCCGCGTTCTTGACGGGAAGATACCCCATC
CGATCAGGTATGGTTTCTAGTGGTAATAGACGTGTATCCAAAATCTTGACGTCCCCGAGGCCTCCCT
CTTAATGAGACAACACTTGCAGCCTTGCTAAAGAAGCAAGGATACAGCACGGGGCTTATAGGCAATGG
CACCAAGGCTTGAAGTGCAGTCCCGAAGTGACCAGTCCACCATCCATAAATTATGGGTTTGACTAC
TACTATGGCATGCCGTTCACTCTCGTTGACAGCTGCTGGCCGGACCCCTCTCGTAACACGGAAATTAGCC
TTTGAGAGTCAGCTCTGGCTCTGTGTGACGCTAGTTGCCATTGCCATCCTCACCTAACCTTTGGGAAG
CTGAGCGGCTGGGTCTCTGTTCCCTGGCTCCTGATCTTCTCCATGATTCTGTTTATTTTCTCTGGGC
TATGCTTGGTTCTCCAGCCACACGTCCCCTTATACTGGGACTGCCTCCTCATGCCGGGGACAGAGATC
ACGGAGCAGCCATGAAGGCTGAACGAGCTGGATCCATTATGGTGAAGGAAGCGATTTCTTTTTAGAA
AGGCACAGTAAGGAACTTTCTTCTCTTTTCTCTTTTCTTTCACGTGCACACACCTCTCCCCACCAG
GACGATTTCACTGGCACCAGCAAGCATGGCTTGTATGGGGATAATGTGGAAGAGATGGACTCCATGGTG
GGCAAGATTCTTGATGCTATCGATGATTTTGGCCTAAGGAACAACACCCTTGCTACTTTACATCAGAT
CACGGAGGGCATTGGAAGCTAGCGGAGGGCATGCCAACTTGGTGGATGGAATGGAATATAAAAGGT
GGAAAAGGCATGGGGGGCTGGGAAGGTGGAATCCGCGTCCAGGAATTGTCCGATGGCCTGGAAAGGTA
CCAGCTGGACGGTTGATTAAGGAACCTACAAGTTAATGGATATTTTACCAACTGTCGATCAGTGTCA
GGAGGAAGTCTCCCTCAGGACAGGGTCATTGACGGCCGAGACCTCATGCCCTTGCTGCAGGCAAGGTC
AGGCACCTCGGAGCATGAATTTCTTTTCCACTACTGTGGCTCCTACCTGCACGCCGTGCGGTGGATCCCC
AAGGACGACAGTGGGTCAGTTTGAAGGCTCACTATGTGACCCCGGATTTCCAGCCACCAGCTTCTGGT
GGCTGCTATGTCACCTCATTATGCAGATGTTTCCGAGAACAGGTTACCTACCACAACCCCTCTGCTC
TTCGATCTCTCCAGGGACCCCTCAGAGTCCACACCCTGACACCTGCCACAGAGCCCTCTATGATTTT
GTGATTA AAAAGGTGGCCAACGCCCTGAAGGAACACCAGGAAACCATCGTGCCTGTGACCTACCAACTC
TCAGA ACTGAATCAGGGCAGGACGTGGCTGAAGCCTTGCTGTGGGGTGTCCCATTTTGTCTGTGTGAC
AAGGAAGAGGAAGTCTCTCAGCCTCGGGGTCTAACGAGAAGAGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Protein Sequence:

>Peptide sequence encoded by RC232997
 Blue=ORF Red=Cloning site Green=Tag(s)

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MRPRRPLVFMSLVCALLNTCQAHRVHDDKPNIVLIMVDDLIGIDLGCYGNDMRTPHIDRLAREGVRLT
QHI SAASLCSPSRSAFLTGRYP.IRSGMVSSGNRRVIQNLAVPAGLPLNETTLAALLKKQGYSTGLIGKW
HQGLNCDRSRSDQCHHPYNYGFDYYGMPFTLVDSWPDPSRNTLAFESQLWLCVQLVAIAILTLTFGK
LSGWVSVPWLLIFSMILFIFLLGYAWFSSHTSPLYWDCLLMRGHEITEQPMKAERAGSIMVKEAISFLE
RHSKETFLLFFSFLHVHTPLPTTDDFTGTSKHGLYGDNVEEMDSMVGKILDAIDDFGLRNNTLVYFTSD
HGGHLEARRGHAQLGGWNGIYKGGKMGWEGGIRVPGIWRWPGKVPAGRLIKEPTSLMDILPTVASVS
GGSLPQDRVIDGRDLMPLLQGNVRHSEHEFLFHYCGSYLHAVRWIPKDDSGSVWKAHYVTPVFQPPASG
GCYVTSLCRCFGEQVYHNPLLFDL SRDPSESTPLTPATEPL YDFVIKKVANALKEHQETIVPVTYQL
SELNQGRTWLKPCCGVFPFCLCDKEEEVSQPRGPNEKR
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
  
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Chromatograms:

https://cdn.origene.com/chromatograms/mk6068_b01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001201539

ORF Size: 1770 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 Size: 2167 bp

RefSeq ORF: 1773 bp

Locus ID: 416

UniProt ID: [P54793](#)

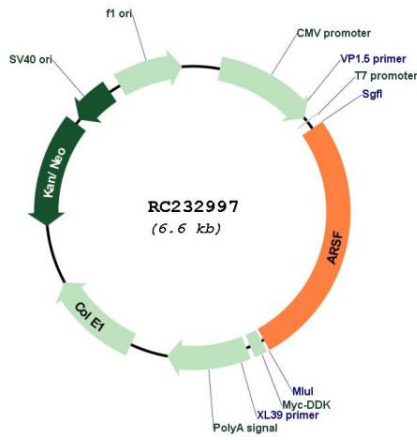
Cytogenetics: Xp22.33

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

MW: 66 kDa

Gene Summary: This gene is a member of the sulfatase family, and more specifically, the arylsulfatase subfamily. Members of the subfamily share similarity in sequence and splice sites, and are clustered together on chromosome X, suggesting that they are derived from recent gene duplication events. Sulfatases are essential for the correct composition of bone and cartilage matrix. The activity of this protein, unlike that of arylsulfatase E, is not inhibited by warfarin. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RC232997