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Product datasheet for SC121544

Arylsulfatase J (ARSJ) (NM_024590) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arylsulfatase J (ARSJ) (NM_024590) Human Untagged Clone
Tag:	Tag Free
Symbol:	Arylsulfatase J
Synonyms:	ASJ
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC121544 sequence for NM_024590 edited (data generated by NextGen Sequencing)

ATGGCTCCCAGGGGCTGTGCGGGGCATCCGCCTCCGCCTTCTCCACAGGCCTGTGTCTGT
CCTGGAAAGATGCTAGCAATGGGGGCGCTGGCAGGATTCTGGATCCTCTGCCTCCTCACT
TATGGTTACCTGTCCTGGGGCCAGGCCTTAGAAGAGGAGGAAGAAGGGGCCTTACTAGCT
CAAGCTGGAGAGAAACTAGAGCCCAGCACAACTTCCACCTCCCAGCCCCATCTCATTTTC
ATCCTAGCGGATGATCAGGGATTTAGAGATGTGGGTTACCACGGATCTGAGATTAAAACA
CCTACTCTTGACAAGCTCGCTGCCGAAGGAGTTAAACTGGAGAACTACTATGTCCAGCCT
ATTTGCACACCATCCAGGAGTCAGTTTATTACTGGAAAGTATCAGATACACACCGGACTT
CAACATTCTATCATAAGACCTACCCAACCCAACTGTTTACCTCTGGACAATGCCACCCTA
CCTCAGAAACTGAAGGAGGTTGGATATTCAACGCATATGGTCGGAAAATGGCACTTGGGT
TTTTACAGAAAAGAATGCATGCCCACCAGAAGAGGATTTGATACCTTTTTTGGTTCCCTT
TTGGGAAGTGGGGATTACTATACACACTACAAATGTGACAGTCCTGGGATGTGTGGCTAT
GACTTGTATGAAAACGACAATGCTGCCTGGGACTATGACAATGGCATATACTCCACACAG
ATGTACACTCAGAGAGTACAGCAAATCTTAGCTTCCCATAACCCCACAAAGCCTATATTT
TTATATATTGCCTATCAAGCTGTTCATTCACCACTGCAAGCTCCTGGCAGGTATTTCGAA
CACTACCGATCCATTATCAACATAAACAGGAGGAGATATGCTGCCATGCTTTCCTGCTTA
GATGAAGCAATCAACAACGTGACATTGGCTCTAAAGACTTATGGTTTCTATAACAACAGC
ATTATCATTTACTCTTCAGATAATGGTGGCCAGCCTACGGCAGGAGGGAGTAACTGGCCT
CTCAGAAGTAGCAAAGGAACATATTGGGAAGGAGGGATCCGGGCTGTAGGCTTTGTGCAT
AGCCCACTTCTGAAAAACAAGGGAACAGTGTGTAAGGAACTTGTGCACATCACTGACTGG
TACCCCACTCTCATTTCACTGGCTGAAGGACAGATTGATGAGGACATTCAACTAGATGGC
TATGATATCTGGGAGACCATAAGTGAGGGTCTTCGCTCACCCCGAGTAGATATTTTGCAT
AACATTGACCCCATATACACCAAGGCAAAAAATGGCTCCTGGGCAGCAGGCTATGGGATC
TGGAACACTGCAATCCAGTCAGCCATCAGAGTGCAGCACTGGAAATTGCTTACAGGAAAT
CCTGGCTACAGCGACTGGGTCCCCCCTCAGTCTTTCAGCAACCTGGGACCGAACCGGTGG
CACAATGAACGGATCACCTTGTCAACTGGCAAAAGTGTATGGCTTTTCAACATCACAGCC
GACCCATATGAGAGGGTGGACCTATCTAACAGGTATCCAGGAATCGTGAAGAAGCTCCTA
CGGAGGCTCTCACAGTTCAACAAAACTGCAGTGCCGGTCAGGTATCCCCCCAAAGACCCC
AGAAGTAACCCTAGGCTCAATGGAGGGGTCTGGGGACCATGGTATAAAGAGGAAACCAAG
AAAAAGAAGCCAAGCAAAAATCAGGCTGAGAAAAAGCAAAAGAAAAGCAAAAAAAAGAAG
AAGAAACAGCAGAAAGCAGTCTCAGGTTCAACTTGCCATTCAGGTGTTACTTGTGGATAA

Clone variation with respect to NM_024590.3
1027 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024590 unedited
CCAATTCCCCCGCCCGTTGACGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCC
GCGAATTCGGCACGAGGGCAGGACAGACGGCCGATCCCGCCGCCCTCCGTACCAGCACTC
CCAGGAGAGTCAGCCTCGCTCCCCAACGTCGAGGGCGCTCTGGCCACGAAAAGTTCCTGT
CCACTGTGAGTCTCAATTCCTTGCTTGGTTTTTTTCTCCAGAGAACTTTTGGGTGGAGAG
ATTAACTTTTTTCTTTTTTTTTTCCTTGGTGGAAGCTGCTCTAGGGAGGGGGGAGGAGGA
GGAGAAAGTGAAATGTGCTGGAGAAGAGCGAGCCCTCCTTGTTCTTCCGGAGTCCCATCC
ATTAAGCCATCACTTCTGGAAGAGTAAAGTTGTCGGACATGGTGACAGCTGAGAGGAGAG
GAGGATTTCTTGCCAGGTGGAGAGTCTTCACCGTCTGTTGGGTGCATGTGTGCGCCCGCA
GCGGCGCGGGGCGCGTGGTTCTCCGCGTGGAGTCTCACCTGGGACCTGAGTGAATGGCTC
CCAGGGGCTGTGCGGNGCATCCGCCTCCGCCTTCTCCACAGGCCTGTGTCTGTCCTGGAA
AGATGCTAGCAATGGGGGCGCTGGCAGGACTCTGGATCCTCTGCCTCCTCACTTATGGAT
ACCTGTCCTGGGGCCAGGCCTTAGACGAGGAGGACGAAGGGGNCCTTACTAGCTCAAGCT
GGAGAGAAACTAGAGCTCAGCACAACTTCCAGCTCCCAGCCCCATCTCATTTTCATCCTA
GCGGATGATCACGGCATTTAGAGCATGTGNGTTACCCACGGATCTGAGATTAAAGCACTA
CTCTTGACAGCTCGCTGCTGAGGAGTTAAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024590 unedited
CGCTATGTACCGCGGCCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTAAGGCCTT
AATGTGACCCATTTATTTATTTATTTATTTATGATGGAGTCTCACTCTGTCACCCAGGCT
GGAGTACTCTGCACAAACATTGAATTTCCAAGTAATTTGTAAGGAATATATTCATCTTAT
TACATTCAAAATCTTGATTGAACAATGACGATTATAAAGTTTTCTGAATGATGTTTTTTA
TAGTCTGAATTCACACAGTATTACATTAATTTATAGTATTACAGTGCTTGATAATTTGAA
GAAATGAAATAAAATTCTTCTAATGGTATGCAGGAAATAAAAATAAAAGTCATTTGCATA
ACTTTTTATAAAAACAACAAAATATTTTTCTGTAAAAATAAATTAGGTTTTTTATACTGA
AATGTTCTTCTAGTAAAGTGTTTAGAAAATAGTTACATTCATTGTGGGCAGTGTGCTCAA
ACATTCTTATTTGCCATTCCCTCACGCATGGTAAAATGAGGTGCAAGCTGTTCACATGTG
AGAAAAACAGCTTTTCACAGGAAAAGAAACATATATTTATATATATAAAATAGAATTAAT
TAAAAAACCCAAGTGTCATATGACAGACATACAAAAATTCACCAAGAAAATATATTCTTC
AAGGCCTTTGAGGTGACACAATCTTTGACTGTGATTTATCAAAAGTAGTTTTAATCATGC
TACCCTGTGACTTCCATCAAAATAACATGCTTGCGGATGGTAAGATATTGGTCTCCTCCT
ATAATTCAAAGCATTGTTTGGTCAATTGACTTGAGCCCANCAGTGGGACTCCAGACTCTC
CACCTTTTTTAAAGAGCCGAGAAAAAACATCCCCCTCCTCTCTAATGTGCTTGCAGAAAG
CACCTGGCCTTAGCAGACAATTTCAAGTGGCGGCCGGG

Restriction Sites: NotI-NotI

ACCN: NM_024590

Insert Size: 3500 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_024590.2, NP_078866.2
RefSeq Size:	4649 bp
RefSeq ORF:	1548 bp
Locus ID:	79642
UniProt ID:	Q5FYB0
Cytogenetics:	4q26
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	Sulfatases (EC 3.1.5.6), such as ARSJ, 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]