

Product datasheet for **RC238829**

ARSL (NM_001282631) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ARSL (NM_001282631) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ARSL |
| Synonyms: | ARSE; ASE; CDPX; CDPX1; CDPXR |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RC238829 representing NM_001282631
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGGAAGTAGAGAGAGACAACATGTTACATCTGCACCATTCTTGGACTCCGAATATTGACCGCC
 TTGCAGAGGACGGCGTGAAGCTGACCCAACACATCTCTGCCGCATCTTTGTGCACCCAAGCAGAGCCGC
 CTTCTCACGGGCAGATACCCTGTGCGATCAGGGATGGTTTCCAGCATTGGTTACCGTGTCTTTCAGTGG
 ACCGGAGCATCTGGAGGTCTTCCAACAAATGAGACAACCTTTGCAAAAATACTGAAAAGAGAAAGGCTATG
 CCACTGGACTCATTGGAAAATGGCATCTGGGTCTCAACTGTGAGTCAGCCAGTGATCATTGCCACCACCC
 TCTCCATCATGGCTTTGACCATTCTACGGAATGCCTTTCTCCTTGATGGGTGATTGCGCCCGCTGGGAA
 CTCTCAGAGAAGCGTGTCAACCTGGAACAAAACCTCAACTTCTCTTCCAAGTCTGGCCTTGGTTGCC
 TCACACTGGTAGCAGGAAGCTCACACACCTGATACCCGTCTCGTGGATGCCGGTATCTGGTCAGCCCT
 TTCGGCCGTCTCTCTCGCAAGCTCCTATTTGTGGGTGCTCTGATTGTCCATGCCGATTGCTTTCTG
 ATGAGAAACCACACCATCACGGAGCAGCCATGTGCTTCAAAGAACGACACCCCTTATTCTGCAGGAGG
 TTGCGTCTTTCTCAAAGGAATAAGCATGGGCCTTTCCTCTCTTTGTTTCTTCTACACGTTACAT
 CCCTCTTACTACTATGGAGAACTTCTCGGAAGAGTCTCCACGGGCTGTATGGGGACAACGTAGAGGAG
 ATGGACTGGATGGTAGGACGGATCCTTGACACTTTGGACGTGGAGGGTTGAGCAACAGCACCCCTCATT
 ATTTTACGTCGGATCACGGCGGTTCCCTAGAGAATCAACTGGAAACACCCAGTATGGTGGCTGGAATGG
 AATTTATAAAGGTGGGAAGGATGGGAGGATGGGAAGTGGGATCCGCGTGCCCGGATCTTCCGCTGG
 CCCGGGTGCTCCCGCCGGCCGAGTGATTGGCGAGCCACGAGTCTGATGGACGTGTTCCACCCGTTGG
 TCCGGCTGGCGGGCGGAGGTGCCCCAGGACAGAGTGATTGACGGCCAAGACCTTCTGCCCTTGCTCCT
 GGGGACGCCCAACACTCAGACCACGAGTTCCTGATGCATTATTGTGAGAGGTTTCTGCACGCAGCCAGG
 TGGCATCAACGGGACAGAGGAACAATGTGGAAGTCCACTTTGTGACGCCTGTGTTCCAGCCAGAGGGAG
 CCGGTGCCTGCTATGGAAGAAAGGTCTGCCGTGCTTTGGGGAAAAAGTAGTCCACCACGATCCACCTTT
 GCTCTTTGACCTCTCAAGAGACCCTTCTGAGACCCACATCCTCACACCAGCCTCAGAGCCGTGTTCTAT
 CAGGTGATGGAACGAGTCCAGCAGGCGGTGTGGGAACACCAGCGGACACTCAGCCAGTTCTCTGCAGC
 TGGACAGGCTGGCAACATCTGGAGACCGTGGCTGCAGCCCTGCTGTGGCCCGTCCCCCTGCTGGTG
 CCTTAGGGAAGATGACCCACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238829 representing NM_001282631
 Red=Cloning site Green=Tags(s)

MSGSRERDNMLHLHHSWTPNIDRLAEDGVKLTQHISAASLCTPSRAAFLTGRYPVRSVMSSIGYRVLQW
 TGASGGLPTNETTFAKILKEKGYATGLIGKWHLGLNCESASDHCHHPLHHGFDFHYGMPFSLMGDCARWE
 LSEKRVNLEQKLNFLFQVLALVALTLVAGKLTALIPVSWMPVIWSALSAVLLLLASSYFVAGALIVHADCF
 MRNHTITEQPMCFQRTTPLLILQEVASFLKRNKHGPFLLFVSFLHVHIPLITMENFLGKSLHGLYGDNV
 MDWMVGRILDTL DVEGLSNSTLIYFTSDHGGSLNQLGNTQYGGWNGIYKGGKMGWEGGIRVPGIFRW
 PGVLPAGRVIGEPTSLMDVFPVRLAGGEVQDRVIDGQDLLPLLLGTAQHSDFELMHYCERFLHAAR
 WHQRDRGTMWVHFVTPVFQPEGAGACYGRKVCPCFGEKVVHHDPLLDL SRDPSETHILTPASEPVFY
 QVMERVQAVWEHQRTLSPVPLQLDRLGNIWRPWLQPCCGPFPLCWCLREDDPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

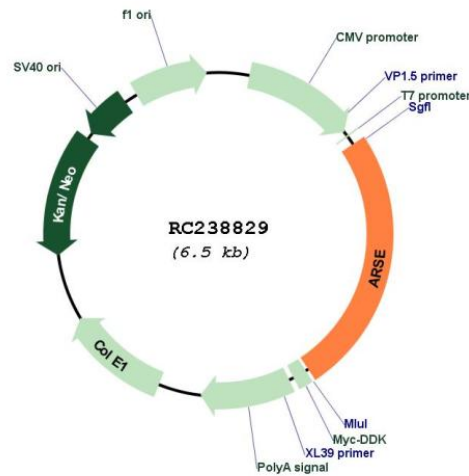
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_001282631 |
| ORF Size: | 1632 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: | <ol style="list-style-type: none">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_001282631.1 , NP_001269560.1 |
| RefSeq Size: | 1990 bp |
| RefSeq ORF: | 1608 bp |
| Locus ID: | 415 |
| Cytogenetics: | Xp22.33 |
| Protein Families: | Druggable Genome, Transmembrane |
| MW: | 61.5 kDa |
| Gene Summary: | Arylsulfatase E is a member of the sulfatase family. It is glycosylated postranslationally and localized to the golgi apparatus. Sulfatases are essential for the correct composition of bone and cartilage matrix. X-linked chondrodysplasia punctata, a disease characterized by abnormalities in cartilage and bone development, has been linked to mutations in this gene. Alternative splicing results in multiple transcript variants. A pseudogene related to this gene is located on the Y chromosome. [provided by RefSeq, Sep 2013] |