

## Product datasheet for **RG205857**

### Arylsulfatase D (ARSD) (NM\_001669) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arylsulfatase D (ARSD) (NM_001669) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arylsulfatase D
Synonyms:	ASD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205857 representing NM\_001669  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGATCCGCCGCGGAGGGGACGCGCCGCCGCCAGGGACTCTTTGCCGGTGTACTGTTTT  
 TATGCTTGCTTCTGAAGACGTGTGAACCTAAAACCTGCAAATGCCTTTAAACCAAATATCCTACTGATCAT  
 GGCGGATGATCTAGGCACTGGGGATCTCGGTTGCTACGGGAACAATACTGAGAACGCCGAATATTGAC  
 CAGCTTGACAGGAAGGTGTGAGGCTCACTCAGCACCTGGCGGCCGCCCGCTCTGCACCCAAAGCCGAG  
 CTGCATTCTCACAGGGAGACATTCCTTCAGATCAGGCATGGACGCCAGCAATGGATACCGGGCCCTTCA  
 GTGGAACGCGAGGCTCAGGTGGACTCCCTGAGAACGAAACCACTTTTGAAGAATCTTGACGAGCATGGC  
 TATGCAACCGGCCTCATAGGAAAATGGCACCAGGGTGTGAATTGTGCATCCCGCGGGGATCACTGCCACC  
 ACCCCCTGAACCACGGATTTGACTATTTCTACGGCATGCCCTTACGCTCACAAACGACTGTGACCCAGG  
 CAGGCCCCCGAAGTGGACGCCGCCCTGAGGGCGCAGCTCTGGGGTTACACCCAGTTCCTGGCGCTGGGG  
 ATTCTCACCTGGCTGCCGGCCAGACCTGCGGTTTCTTCTGTCTCCCGGAGAGCAGTACCGGCATGG  
 CCGGCGTGGGCTGCCTGTTTTTCATCTCTTGGTACTCCTCCTCCGGGTTTGTGCGACGCTGGAACGTAT  
 TCTGATGAGAAACCATGACGTACCGGAGCAACCCATGGTCTGGAGAAAACAGCGAGTCTTATGCTAAAG  
 GAAGCTGTTTCTATATTGAAAGACACAAGCATGGGCCATTTCTCCTCTTCTTTCTTGTGCATGTGC  
 ACATTCCTTGTGACACGAGTGCATTCTGGGAAAAGTCAGCATGGCTTATATGGTGATAATGTGGA  
 GGAGATGGACTGGCTCATAGGTAAGGTTCTTAATGCCATCGAAGACAATGGTTTAAAGAACTCAACATTC  
 ACGTATTTACCTCTGACCATGGAGGACATTTAGAGGCAAGAGATGGACACAGCCAGTTAGGGGGATGGA  
 ACGGAATTTACAAGGTGGGAAGGGCATGGGAGGATGGGAAGGTGGGATCCGCGTGCCCGGGATCTCCA  
 CTGGCCGGGGTCTCCCGGCCGCCGAGTGATTGGAGAGCCACGAGCCTGATGGACGTGCCCTACT  
 GTGGTCCAGTGGTGGGTGGCGAGGTGCCCCAGGACAGGGTATTGATGGCCACAGCCTGGTACCCTTGC  
 TGCAGGGAGCTGAGGCACGCTCGGCACATGAGTTCCTGTTTCACTGTGGGCAGCATCTTACGCAGC  
 ACGCTGGCACCAGAAGGACAGTGGAAAGCTCTGGAAGGTTCACTACACGACCCCGCAGTTCACCCCGAG  
 GGAGCGGGGGCTGCTACGGCCGAGGCTCTGCCATGCTCCGGGGAGGGCGTGACCCATCACAGACCC  
 CTTTGCTCTTTGACCTCTCCAGGACCCCTCCGAGGCACGGCCCTGACCCCGACTCCGAGCCCTGT  
 CCACGCCGTGATAGCAAGGTAGGTGCCCGGTGTGGAGCATCGGCAGACCCTGAGTCTGTGCCCCAG  
 CAGTTTTCCATGAGCAACATCCTGTGGAAGCCGTGGCTGCAGCCGTGCTGCGGACATTTCCGTTCTGTT  
 CATGCCACGAGGATGGGGATGGCACCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG205857 representing NM\_001669  
 Red=Cloning site Green=Tags(s)

MRSAARRGRAAPAARDSLPVLLFLCLLLKTCPEKTANAFKPNILLIMADDLGTGDLGCGYGNNTLRPNID  
 QLAEEGVRLTQHLLAAAPLCTPSRAAFLTGRHSFRSGMDASNGYRALQWNAGSGGLPENETTFARILQQHG  
 YATGLIGKWHQGVNACASRGDCHHPLNHGFDYFYGMPTLTNDGDPGRPEVDAALRAQLWGYTQFLALG  
 ILTLAAGQTCGFFSVSARAVTGMAGVGCLFFISWYSSFGFVRRWNCILMRNHDVTEQPMVLEKTASMLK  
 EAVSYIERHKHGFLLFLSLLHVHIPLVTTSAFLGKSQHGLEYGDNVEEMDWLIGKVLNAIEDNGLKNSTF  
 TYFTSDHGGHLEARDGHSQGGWNGIYKGGKGMGGWEGGIRVPGIFHWPVLPAGRVIGEPTSLMDVFP  
 VVQLVGGEVPPQDRVIDGHSLVPLLQGAEARSAHEFLFHYCGQLHAARWHQKDSGSVWVHYTTTPQFHPE  
 GAGACYGRVCPVCSGEGVTHRPPLLFDLSDRDPSEARPLTPDSEPLYHAVIARVGAHVSEHRQTLSPVPPQ  
 QFSMSNILWKPWLQPCCGHFPFCSCHEGDTGTP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001669

**ORF Size:** 1779 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\\_001669.2](#), [NP\\_001660.2](#)

**RefSeq Size:** 5159 bp

**RefSeq ORF:** 1782 bp

**Locus ID:** 414

**UniProt ID:** [P51689](#)

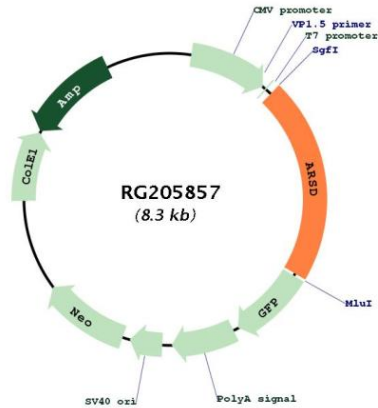
**Cytogenetics:** Xp22.33

**Domains:** Sulfatase

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene is a member of the sulfatase family. Sulfatases are essential for the correct composition of bone and cartilage matrix. The encoded protein is postrationally glycosylated and localized to the lysosome. This gene is located within a cluster of similar arylsulfatase genes on chromosome X. A related pseudogene has been identified in the pseudoautosomal region of chromosome Y. [provided by RefSeq, Jul 2011]

**Product images:**



Circular map for RG205857