

## Product datasheet for **RN207415**

### **Abcd2 (NM\_033352) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcd2 (NM_033352) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Abcd2
Synonyms:	ALDR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN207415 representing NM\_033352  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATACACATGCTAAATGCAGCAGCCTATCGGGTGAATGGACCAGATCCGGTGTCTAAAAGGGCTG  
 CCTGCCTGGTGGCTGCGGCATATGCTCTGAAAACCCTCTATCCATCCTTGGCAGGCGTTTAAAGCAGCC  
 TGGCCACCGGAAGGCGAAAGCAGAAAGATTACCCGCTGCAGAGAACAGAGAAAGACTGCATTGCACAGAG  
 ATCATCTGTAAAAACCTGCGCCGGGACTAAATGCAGATTTTTTCAAACAGCTACTAGAACTTCGGAAAA  
 TCCTCTTCCAAAACCTGTGACCACTGAAACGGGGTGGCTCTGCCTCCACTCGGTGGCTCTAATCTCACG  
 AACGTTTCTGTCTATCTACGTGGCTGGTCTGGATGGGAAAATCGTAAAAGCATCGTGGAAAAGAAGCCT  
 CGGACTTTCATCATCAAACCTAGTCAAGTGGCTTATGATTGCCGTCGCCGCTACCTTTGTCAACAGCGCTA  
 TCAGGTACCTGGAGTCAAACCTGGCATTGGCCTTGAAGTCTGTTAGTGGACCATGCCTATGAGACCTA  
 TTTTGCAATCAGACTTATTATAAGGTGATAAATATGGACGGGAGGCTGGCAAACCTGACCAGTCTCTT  
 ACTGAAGACATTATGATGTTCTCGCAATCGGTGGCTCACCTGTATTCCAACCTTACCAAACCGATTTTAG  
 ATGTAATTCTAACCTCCTATACCCTCATCCGGACAGCTACATCCAGAGGAGCAAGCCCCATCGGGCCAC  
 CCTGTTAGCAGGGCTCGTGGTGTATGCCACTGCTAAAAGTCTGAAAGCTTGTCTGCCCAAATTTGGTACT  
 CTGGTGGCTGAAGAAGCTCATAGAAAGGGCTACTTGGCGTATGTTCACTCCAGAATCATAGCCAATGTGG  
 AAGAAATTGCCTTCTACAGAGGACATAAGGTAGAAATGAAGCAACTGCAGAAGTGTACAAGGCTTTAGC  
 TTACCAGATGAACCTTATTCTATCCAAACGTTTGTGGTACATCATGATAGAACAGTTCCTGATGAAGTAT  
 GTGTGGAGCGGCTGTGGACTAATTATGGTGGCCATACCTATCATCACTGCAACAGGCTTTGCAGATGGTG  
 ATCTGGAGGATGGCCCTAAGCAGGCTATGGTTAGCGATCGGACAGAGGCTTTACCACTGCTCGGAATTT  
 ACTGGCCTCTGGAGCTGACGCGATTGAGAGGATTATGTCTTCATACAAAGAGATCACTGAACCTAGCGGGT  
 TATACTGCCAGAGTGACAACATGTTCTGGGTCTTCGATGAAGTGAAGAGAGGCATTTATAAGAGAAGT  
 TCACTCAGGAGCCTGAAAACAATAGCAAGAGTGGAGGTGGCTGGAGCTGCCCTCAGTGACACCCTGGC  
 AATCAAAGGGACAGTCATTGACGTGGATCATGGAATCCTTTGTGAAAATGTTCCCATATCACGCCGGCG  
 GGAGAAGTGGTGGCTTCCAGTCTGAACCTCAAAGTAGAAGAAGGGATGCATCTTTTGATAACCGCCCCA  
 ATGTTTGTGGGAAAAGCTCTCTGTTTCAAGTCTTAAGTGGGCTCTGGCCTGTGTGAAGGAGTCTTTA  
 TAAACCACCTCCCAACATATGTTCTATATTCCACAGAGGCGTACATGTCTCTTGAAGTCTTCGGGAT  
 CAAGTCATTTATCCTGACTCGGTGGATGACATGCATGAGAAAGGTTATACAGACCAGACCTAGAGCATA  
 TTCTGCACAGCGTCCACCTCTACCACATAGTCCAAAGAGAAGGAGGATGGGATGCAGTCATGGATTGGAA  
 AGATGTCCTTTCAGGAGGGGAGAAAACAGAGAATGGGGATGGCACGGATGTTTTACCATAAACCGAAGTAC  
 GCATTGCTGGACGAGTGCACCAGTGTGTGAGCATTGACGTGGAAGGAAAGATATTTTCCAGGCTGCTATCG  
 GGGCTGGCATTTCCTTACTGTCTATAACGCACAGGCTTCTCTGTGAAAATACCACACCCACCTATTGCA  
 ATTTGATGGCGAAGGAGGTTGGCGCTTTGAACAGTTGGACACTGCTATCCGCTTAAAGGTTAAGCGAGGAG  
 AAACAGAAAGTTGGAGTCGACGCTCGCTGGAATTCCAAATGCAGCAGAGACTCAATGAACGTGCAAAA  
 TTTTGGGGGAAGACTCGGTGCTGAAAACGATCAAACCTGCAGAGGACACATCC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_033352

**Insert Size:** 2226 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_033352.1</a></u> , <u><a href="#">NP_203503.1</a></u>
<b>RefSeq Size:</b>	5531 bp
<b>RefSeq ORF:</b>	2226 bp
<b>Locus ID:</b>	84356
<b>UniProt ID:</b>	<u><a href="#">Q9QY44</a></u>
<b>Cytogenetics:</b>	7q35
<b>Gene Summary:</b>	ATP-binding cassette (ABC) peroxisomal half-transporter that assembles with ALDRP to form a functional heterodimer; mutation in ABCD proteins causes X-linked adrenoleukodystrophy [RGD, Feb 2006]