

Product datasheet for **RR207415**

Abcd2 (NM_033352) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR207415 representing NM_033352
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATACACATGCTAAATGCAGCAGCCTATCGGGTGAATGGACCAGATCCGGTGTCTGCTAAAAGGGCTG
 CCTGCCTGGTGGCTGCGGCATATGCTCTGAAAACCCTCTATCCCATCCTTGGCAGGCGTTTAAAGCAGCC
 TGGCCACCGGAAGGCGAAAGCAGAAAGATTACCCGCTGCAGAGAACAGAGAAAGACTGCATTGCACAGAG
 ATCATCTGTAAAAACCTGCGCCGGGACTAAATGCAGATTTTTTCAAACAGCTACTAGAACTTCGGAAAA
 TCCTCTTCCAAAACCTGTGACCACTGAAACGGGGTGGCTCTGCCTCCACTCGGTGGCTCTAATCTCACG
 AACGTTTCTGTCTATCTACGTGGCTGGTCTGGATGGGAAAATCGTAAAAGCATCGTGGAAAAGAAGCCT
 CGGACTTTCATCATCAAACCTAGTCAAGTGGCTTATGATTGCCGTCGCCGCTACCTTTGTCAACAGCGCTA
 TCAGGTACCTGGAGTGCAAACCTGGCATTGGCCTTGAAGTCTGTTAGTGGACCATGCCTATGAGACCTA
 TTTTGCAATCAGACTTATTATAAGGTGATAAATATGGACGGGAGGCTGGCAAACCTGACCAGTCTCTT
 ACTGAAGACATTATGATGTTCTCGCAATCGGTGGCTCACCTGTATTCCAACCTTACCAAACCGATTTTAG
 ATGTAATTCTAACCTCCTATACCCTCATCCGGACAGCTACATCCAGAGGAGCAAGCCCCATCGGGCCAC
 CCTGTTAGCAGGGCTCGTGGTGTATGCCACTGCTAAAAGTCTGAAAGCTTGTCTGCCCAAATTTGGTACT
 CTGGTGGCTGAAGAAGCTCATAGAAAGGGCTACTTGGCGTATGTTCACTCCAGAATCATAGCCAATGTGG
 AAGAAATTGCCTTCTACAGAGGACATAAGGTAGAAATGAAGCAACTGCAGAAGTGTACAAGGCTTTAGC
 TTACCAGATGAACCTTATTCTATCCAAACGTTTGTGGTACATCATGATAGAACAGTTCCTGATGAAGTAT
 GTGTGGAGCGGCTGTGGACTAATTATGGTGGCCATACCTATCATCACTGCAACAGGCTTTGCAGATGGTG
 ATCTGGAGGATGGCCCTAAGCAGGCTATGGTTAGCGATCGGACAGAGGCTTTACCACTGCTCGGAATTT
 ACTGGCCTCTGGAGCTGACGCGATTGAGAGGATTATGTCTTCATACAAAGAGATCACTGAACCTAGCGGGT
 TATACTGCCAGAGTGACAACATGTTCTGGGTCTTCGATGAAGTGAAGAGAGGCATTTATAAGAGAAGT
 TCACTCAGGAGCCTGAAAACAATAGCAAGAGTGGAGGTGGCCTGGAGCTGCCCTCAGTGACACCCTGGC
 AATCAAAGGGACAGTCATTGACGTGGATCATGGAATCCTTTGTGAAAATGTTCCCATAAATCACGCCGGCG
 GGAGAAGTGGTGGCTTCCAGTCTGAACCTCAAAGTAGAAGAAGGGATGCATCTTTTGATAACCGGCCCA
 ATGGTTGTGGGAAAAGCTCTCTGTTTCAAGTCTTAAGTGGGCTCTGGCCTGTGTATGAAGGAGTCTTTA
 TAAACCACCTCCCAACATATGTTCTATATTCCACAGAGGCGTACATGTCTCTTGAAGTCTTCGGGAT
 CAAGTCATTTATCCTGACTCGGTGGATGACATGCATGAGAAAGGTTATACAGACCAGACCTAGAGCATA
 TTCTGCACAGCGTCCACCTCTACCACATAGTCCAAAGAGAAGGAGGATGGGATGCAGTCATGGATTGGAA
 AGATGTCCTTTCAGGAGGGGAGAAAACAGAGAATGGGGATGGCACGGATGTTTTACCATAAACCGAAGTAC
 GCATTGCTGGACGAGTGACCAAGTGTGTGAGCATTGACGTGGAAGGAAAGATATTTAGGCTGCTATCG
 GGGCTGGCATTTCCTTACTGTCTATAACGCACAGGCTTCTCTGTGGAAATACCACCCACCTATTGCA
 ATTTGATGGCGAAGGAGGTTGGCGCTTTGAACAGTTGGACACTGCTATCCGCTTAAAGGTTAAGCGAGGAG
 AAACAGAAAGTTGGAGTCGAGCTCGTGGAAATCCCAAATGCAGCAGAGACTCAATGAAGTGTGCAAAA
 TTTTGGGGGAAGACTCGGTGCTGAAAACGATCAAACCTGCAGAGGACACATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207415 representing NM_033352
Red=Cloning site Green=Tags(s)

MIHMLNAAAYRVKWTRSGAAKRAACLVAAYALKTLYPILGRRLKQPGHRKAKAEDYPPAENRERLHCTE
 IICKKPAPGLNADFFKQLELRKILFPKLVTTETGWLCLHSVALISRTFLSIYVAGLDGKIVKSIVEKPP
 RTFIIKLVKWLMIAVPATFVNSAIRYLECKLALAFRTRLDVHAYETYFANQTYKVINMDGRLANPDQSL
 TEDIMMFSQSVAHLYSNLTKPILDVILTSYTLIRTATSRGASPIGPTLLAGLVVYATAKVLKACSPKFGT
 LVAAEAHRKGYLRVHSRIIANVEEIAFYRGHKVEMKQLQKCYKALAYQMNLILSKRLWYIMIEQFLMKY
 VWSGCGLIMVAIPIITATGFADGDLEDGPKQAMVSDRTEAFTTARNLLASGADAIERIMSSYKEITELAG
 YTARVYNMFVWFDEVKRGYKRTVTQEPENNSKSGGLELPLSDTLAIKGTVIDVDHGILCENVPITPA
 GEVVASSLNFKVEEGMHLLITGPNCGKSSLFRILSGLWPVYEGVLKPPQHMFIYQRPYMSLGLSLRD
 QVIYPDSVDDMHEKGYTRDLEHILHSVHLHYIVQREGGWDVMDWKDVLSGGEKQRMGMARMFYHKPKY
 ALLDECTSAVSIDVEGKIFQAAIGAGISLLSITHRPSLWKYHHTLLQFDGEGGWRFELDTAIRLTLSEE
 KQKLESQLAGIPKMQRNLNELCKILGEDSVLTKTIQTAEDTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033352

ORF Size: 2223 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_033352.1](#), [NP_203503.1](#)

RefSeq Size: 5531 bp

RefSeq ORF: 2226 bp

Locus ID: 84356

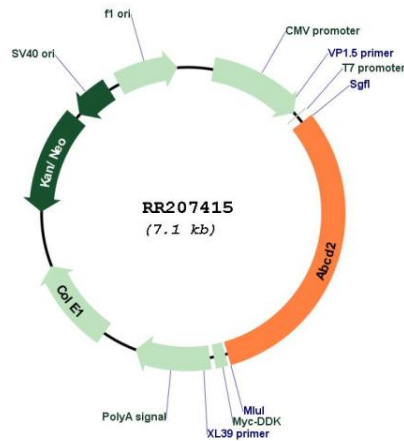
UniProt ID: [Q9QY44](#)

Cytogenetics: 7q35

MW: 83.4 kDa

Gene Summary: 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]

Product images:



Circular map for RR207415