

Product datasheet for **RN201952**

Aldh1a3 (NM_153300) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Aldh1a3 (NM_153300) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Aldh1a3 |
| Synonyms: | Aldh6 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >RN201952 representing NM_153300
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCACCGCTAACGGGGCCGTGGAAAACGGACAGCCTGATGGGAAACCGCCTGCCTTGCCGCGCCCCA
TCCGCAACTTGGAGGTCAAGTTCACCTAAGATATTTATCAACAATGACTGGCAGCAACCCAAGAGTGGAAAG
AAAGTTTGCCACATATAACCCCTCAACTCTAGAGAAAATATGTGAGGTGGAAAGGCGATAAGCCCGAT
GTGGACAAGGCCGTGGAGGCCGCCAAGCTGCCTTCCAGAGGGGCTCCCGTGGCGCAGGCTGGATGCC
TGAGTCGTGGCCAGTTGTTGCACCAAGTTGGCTGATCTTATAGAAAGGGACCGCGCTATCCTGGCAACTCT
AGAGACCATGGACACCGCAAGCCGTTCCCTTCATGCCTTTTTCGTCGACCTGGAGGGCTGTATTAAGACC
TTCAGATATTTTCCGGGTGGGCAGACAAAATCCAGGGCAGGACCATCCCACAGATGATAATGTCATGT
GCTTACCAGGCATGAGCCATTGGGGTGTGTGGGGCCATTACACCATGGAACCTCCCCCTGTTGATGCT
GGCCTGGAAACTGGCTCCTGCCCTGTGCTGCGGGAACACCGTGGTCTGAAGCCAGCTGAGCAGACGCCT
CTCACTGCCCTGTACCTCGCTTCTCTCATCAAAGAGGTCCGGTCCCTCCAGGTGTGGTGAACATTGTGC
CAGGCTTTGGGCCACAGTGGGAGCAGCAATCTCCTCTCATCCACAGATCAACAAGATAGCCTTCACCGG
CTCCACAGAGGTTGGAAAGCTGGTTAAAGAAGCTGCCTCCAGGAGCAACCTGAAGCGGGTACACTGGAG
CTGGGAGGCAGGAACCCGTGCATCGTGTGTGCGGACGCTGACCTGGACTTGGCTGTGGAGTGTGCTCACC
AGGGAGTGTCTTCAACCAAGGCCAGTGTGCACAGCGGCCTCCAGGGTGTGTTGTGGAAGAGCAGGTCTA
CGGGGAGTTTGTGAGGAGGAGTGTGGAGTTCGCCAAGAAGAGGCCAGTTGGAGACCCCTTCGATGCCAAA
ACGGAGCAGGGCCCTCAGATCGACAAAAGCAGTTTGACAAAATCCTCGAGCTGATCGAGAGTGGGAAGA
AGGAAGGGGCCAAGCTAGAATGTGGGGGTCAGCCATGGAGGACAGAGGGCTGTTTCATCAAACCCACCGT
CTTCTCAGACGTTACGGACAACATGAGGATTGCCAAAGAGGAGATTTTTGGACCAGTGCAACCAACTCTG
AAGTTCAAAAACCTGGAGGAAGTAATCAAAGAGCGAACAGCACTGACTATGGGCTCACGCGGCCGTGT
TCACAAAACCTCGACAAAAGCCCTGAAGCTGGCTTCCGCGCTCGAGTCGGGGACAGTCTGGGTCAACTG
CTACAACGCATTCTATGCACAGGCTCCATTTGGTGGCTTCAAATGTCTGGAAATGGCAGAGAAGTGGT
GAATACGCTTTGGCTGAATACACAGAAGTAAAACCTGTCACCATCAAACCTGATGAGAAGAACCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_153300

Insert Size: 1539 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_153300.1](#), [NP_695212.1](#)

RefSeq Size: 1539 bp

RefSeq ORF: 1539 bp

Locus ID: 266603

UniProt ID: [Q8K4D8](#)

Cytogenetics: 1q22

Gene Summary: NAD-dependent aldehyde dehydrogenase that catalyzes the formation of retinoic acid (By similarity). Has high activity with all-trans retinal, and has much lower in vitro activity with acetaldehyde (By similarity). Required for the biosynthesis of normal levels of retinoic acid in the embryonic ocular and nasal regions; retinoic acid is required for normal embryonic development of the eye and the nasal region (By similarity).[UniProtKB/Swiss-Prot Function]