

Product datasheet for **RN216194**

Esd (NM_001270866) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Esd (NM_001270866) Rat Untagged Clone
Tag: Tag Free
Symbol: Esd
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN216194 representing NM_001270866
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACAAAACAGATTTCCAGCAACAAGTGCTTTGGCGGGCTCCAGAAAGTTTTGAACATAGCAGTG
TTGAGCTGAAATGTAATGAAATTTGCTATCTACCTACCACCCAGGCTGAGAGTGCAAAGTGCCCTGC
ACTTTACTGGCTGTCTGGTTAACTTGCACAGAACAAAATTTTCATATCAAAGCTGGCTGTCAACAAGCT
GCCTCAGAACATGGCCTTGTGGTCATTGCTCCTGATACCAGCCCCGGTGGCTGCAATATTAAGGAGAAG
ATGACAGCTGGGACTTCGGCACTGGTGGGGTTTTTTGTGAACGCCACTGAGGATCCTTGGAACTACTAA
CTACAGAATGACTCTTACGTAACAGAGGAGCTTCCACAACCTATAAATGCCAATTTCCAGTGGACCCA
CAGAGGATATCTATTTTTGGTCACTCCATGGGAGGTCACGGAGCTCTGATTTGCGCTTTGAAAAATCCTG
GAAAAACAGATCTGTATCTGCATTTGCTCCAATTTGCAACCCTGTGCTCTGTCTTGGGGCAAAAAGC
TTTTAATGGATATTTGGGACCAGATCAAAGTAAATGGAAGGCGTACGATGCGACCTGTCTCGTGAAGTCC
TACTCGGGTCCACAGATTGACATACTAATTGATCAGGGGAAAGATGACGAGTTCTCTCGAATGGCCAGT
TACTCCCTGACAACTTCATCGCTGCCTGCACAGAAAAGAAAATCCCTGTTGTTTTAGGCTACAAGAGCT
ACTACTTCATTGCAACCTTCATCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001270866
Insert Size: 798 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001270866.1</u> , <u>NP_001257795.1</u>
RefSeq Size:	1058 bp
RefSeq ORF:	798 bp
Locus ID:	290401
UniProt ID:	<u>B0BNE5</u>
Cytogenetics:	15q11
Gene Summary:	<p>Serine hydrolase involved in the detoxification of formaldehyde.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and uses an alternate splice site at the 5' end of the last exon compared to variant 1, that causes a frameshift. The resulting isoform (b) has a shorter and distinct C-terminus compared to isoform a.</p>