

Product datasheet for **RR216194**

Esd (NM_001270866) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Esd (NM_001270866) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Esd
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216194 representing NM_001270866
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAACAAAACAGATTTCCAGCAACAAGTGCTTTGGCGGGCTCCAGAAAGTTTTGAACATAGCAGTG
TTGAGCTGAAATGAAAAATGAAATTTGCTATCTACCTACCACCCAGGCTGAGAGTGCAAAGTGCCCTGC
ACTTTACTGGCTGTCTGGTTAACTTGCACAGAACAAAATTTTCATATCAAAGTCTGGCTGTCAACAAGCT
GCCTCAGAACATGGCCTTGTGGTCATTGCTCCTGATACCAGCCCCGTGGCTGCAATATTAAGGAGAAG
ATGACAGCTGGGACTTCGGCACTGGTGGGGTTTTTTGTGAACGCCACTGAGGATCCTTGAACACTAA
CTACAGAATGACTCTTACGTAACAGAGGAGCTTCCACAACCTATAAATGCCAATTTCCAGTGGACCCA
CAGAGGATATCTATTTTGGTCACTCCATGGGAGGTCACGGAGCTCTGATTTGCGCTTTGAAAAATCCTG
GAAAATACAGATCTGTATCTGCATTTGCTCCAATTTGCAACCCTGTGCTCTGCTTGGGGCAAAAAGC
TTTTAATGGATATTTGGGACCAGATCAAAGTAAATGGAAGGCGTACGATGCGACCTGTCTCGTGAAGTCC
TACTCGGGTCCACAGATTGACATACTAATTGATCAGGGGAAAGATGACGAGTTCTCTCGAATGGCCAGT
TACTCCCTGACAACTTCATCGCTGCCTGCACAGAAAAGAAAATCCCTGTTGTTTTAGGCTACAAGAGCT
ACTACTTCATTGCAACCTTCATCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216194 representing NM_001270866
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MELKQISSNCKFGLQKVFHSSVELKCKMKFAIYLPQAESAKCPALYWLSGLTCTEQNFISKSGCQQA
 ASEHGLVVIAPDTSRPGCNKIGEDDSWDFGTGAGFFVNATEDPWNTNYRMYSYVTEELPQLINANFPVDP
 QRISIFGHSMGGHALICALKNPGKYRSVSAFAPICNPVLCPWGKKAFNGYLGPDQSKWKAYDATCLVKS
 YSGPQIDILIDQKDFL SNGQLLPDNFIAACTEKKIPVVFRQLQELLHCNLHH

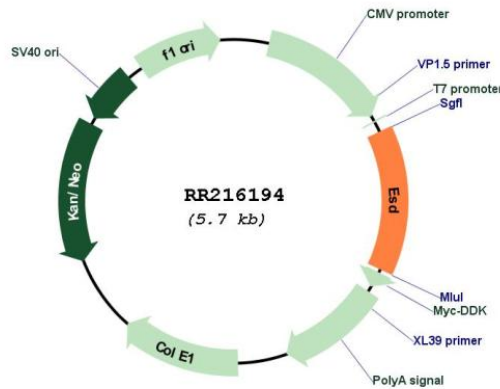
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270866

ORF Size: 795 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:	<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:	NM_001270866.1 , NP_001257795.1
RefSeq Size:	1058 bp
RefSeq ORF:	798 bp
Locus ID:	290401
UniProt ID:	B0BNE5
Cytogenetics:	15q11
MW:	29.3 kDa
Gene Summary:	Serine hydrolase involved in the detoxification of formaldehyde.[UniProtKB/Swiss-Prot Function]