

Product datasheet for MC208451

Esd (NM_016903) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esd (NM_016903) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Esd
Synonyms:	Es-10; Es10; FGH; sid478
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208451 representing NM_016903 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTCAAACAGATTTCCAGCAACAGGTGCTTTGGCGGGCTCCAGAAAGTTTTCGAACATAGCAGTG
TTGAGCTGAAATGAAAAAGAGATTTGCTGTCTACCTACCACCCAGGCCGAGAGTGAAAGTGCCAGC
GCTTTACTGGCTGTCTGGTTAACTTGCACAGAACAAAATTTTCAATCAAAGTCTGGCTATCAGCAAGCT
GCCTCAGAGCACGGCCTTGTGGTCATTGCCCTGATACCAGCCCTCGTGGCTGCAATATCAAAGGAGAAG
ATGACAGCTGGGACTTCGGCACTGGTGTGGGTTTTATGTGAATGCCACTGAAGATCCTTGAAAGCTAA
CTACAGAAATGACTCTTACGTACCCGAGGAGCTTCCACAACCTATAAATGCCAATTTCCAGTGGACCCA
CAGAGGATGTCTATTTTTGGTCACTCCATGGGAGGCCACGGAGCTCTGATTTGTGCTTTGAAAAATCCTG
GAAAAACAGATCTGTGTCAGCATTTGCTCCAATTTGCAACCCTGTGCTGTGTTCTTGGGGCAAAAAAGC
TTTTAGTGGATATTTGGGACCAGATGAAAGTAAATGGAAGGCATACGATGCGACCTGTCTCGTGAAGGCC
TATTCGGGTTCCAGATTGACATCCTAATCGATCAAGGAAAAGATGACGAGTTTCTTTCAAATGGGCAGT
TACTCCCTGATAACTTCATAGCTGCCTGCACAGAGAAGAAAATCCCTGTTGTGTTAGACTACAAGAGGG
TTATGATCATAGCTACTTTCATTGCAACTTTTCATCGCTGACCACATCAGACACCATGCTAAGTACCTG
AATGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_016903
Insert Size:	849 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_016903.5](#), [NP_058599.1](#)

RefSeq Size: 1988 bp

RefSeq ORF: 849 bp

Locus ID: 13885

UniProt ID: [Q9R0P3](#)

Cytogenetics: 14 39.38 cM

Gene Summary: Serine hydrolase involved in the detoxification of formaldehyde.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) contains a distinct 5' UTR, lacks an in-frame portion of the 5' coding region and initiates translation at a downstream start codon compared to variant 1. The resulting isoform (2) is shorter than isoform 1.