

## Product datasheet for **RR210004**

### Esd (NM\_001106051) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Esd (NM\_001106051) 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:** >RR210004 representing NM\_001106051  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACAAAACAGATTTCCAGCAACAAGTGCTTTGGCGGGCTCCAGAAAGTTTTGAACATAGCAGTG  
TTGAGCTGAAATGAAAAATGAAATTTGCTATCTACCTACCCAGGCTGAGAGTGCAAAGTGCCCTGC  
ACTTTACTGGCTGTCTGGTTAACTTGCACAGAACAAAATTTTCATATCAAAGCTGGCTGTCAACAAGT  
GCCTCAGAACATGGCCTTGTGGTCATTGCTCCTGATACCGCCCGTGGCTGCAATATTAAGGAGAAG  
ATGACAGCTGGGACTTCGGCACTGGTGGGGTTTTTTGTGAACGCCACTGAGGATCCTTGAACACTAA  
CTACAGAATGACTCTTACGTAACAGAGGAGCTTCCACAACCTATAAATGCCAATTTCCAGTGGACCCA  
CAGAGGATATCTATTTTGGTCACTCCATGGGAGGTACGGAGCTCTGATTTGCGCTTTGAAAAATCCTG  
GAAAATACAGATCTGTATCTGCATTTGCTCCAATTTGCAACCCTGTGCTCTGCTTGGGGCAAAAAGC  
TTTTAATGGATATTTGGGACCAGATCAAAGTAAATGGAAGGCGTACGATGCGACCTGTCTCGTGAAGTCC  
TACTCGGGTCCACAGATTGACATACTAATTGATCAGGGGAAAGATGACGAGTTCTCTCGAATGGCCAGT  
TACTCCCTGACAACTTCATCGCTGCCTGCACAGAAAAGAAAATCCCTGTTGTTTTAGGCTACAAGAGGG  
TTATGATCATAGCTACTACTTCATTGCAACCTTCATCACTGACCACATCAGGCATCATGCCAAGTACCTG  
AATGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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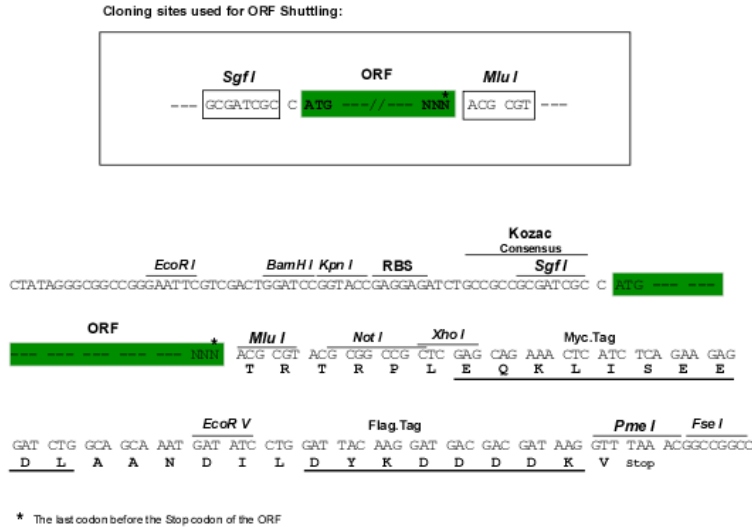
**Protein Sequence:** >RR210004 representing NM\_001106051  
 Red=Cloning site Green=Tags(s)

MELKQISSNCKFGGLQKVFHSSVELKCKMKFAIYLPPQAESAKCPALYWLSGLTCTEQNFISKSGCQQA  
 ASEHGLVVIAPDTSPRGCNIKGEDDSWDFGTGAGFFVNATEDPWNTNYRMYSYVTEELPQLINANFPVDP  
 QRISIFGHSMGGHALICALKNPGKYRSVSAFAPICNPVLCPWGKKAFFNGYLGPDQSKWKAYDATCLVKS  
 YSGPQIDILIDQGKDEFLSNGQLLPDNFIAACTEKKIPVVFRLQEGYDHSYYFIATFITDHIRHHAKYL  
 NA

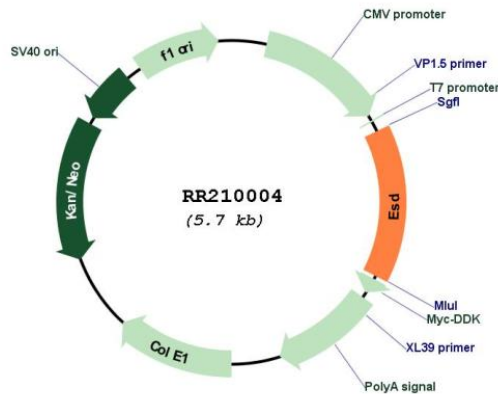
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001106051

<b>ORF Size:</b>	846 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001106051.3</a> , <a href="#">NP_001099521.1</a>
<b>RefSeq Size:</b>	1072 bp
<b>RefSeq ORF:</b>	849 bp
<b>Locus ID:</b>	290401
<b>UniProt ID:</b>	<a href="#">B0BNE5</a>
<b>Cytogenetics:</b>	15q11
<b>MW:</b>	31.4 kDa
<b>Gene Summary:</b>	Serine hydrolase involved in the detoxification of formaldehyde.[UniProtKB/Swiss-Prot Function]