

Product datasheet for **RG200533**

ESD (NM_001984) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ESD (NM_001984) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ESD
Synonyms:	FGH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200533 representing NM_001984 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATTGAAGCAGATTTCCAGCAACAAGTGCTTTGGGGGATTGCAGAAAGTTTTGAACATGACAGTG
TTGAACTAACTGCAAAATGAAATTTGCTGTCTACTTACCACAAAGGCAGAAACAGGAAAGTGCCTGC
ACTGTATTGGCTCTCAGGTTTAACTTGACAGAGCAAAATTTATATCAAAATCTGGTTATCATCAGTCT
GCTTCAGAACATGGTCTTGTGTCATTGCTCCAGATACCAGCCCTCGTGGCTGCAATATTAAGGTGAAG
ATGAGAGCTGGGACTTTGGCACTGGTGTGGATTTTATGTTGATGCCACTGAAGATCCTTGAAAACCAA
CTACAGAAATGACTCTTATGTACAGAGGAGCTTCCCAACTCATAAATGCCAATTTCCAGTGGATCCC
CAAAGGATGTCTATTTTGGCCACTCCATGGGAGGTCTGGAGCTCTGATCTGTGCTTTGAAAAATCCTG
GAAAATACAAATCTGTGTCAGCATTTGCTCCAATTTGCAACCCTGTACTCTGTCCCTGGGGCAAAAAAGC
CTTTAGTGGATATTTGGGAACAGATCAAAGTAAATGGAAGGCTTATGATGCTACCCACCTTGTGAAATCC
TATCCAGGATCTCAGCTGGACATACTAATTGATCAAGGAAAGATGACCAGTTTCTTTAGATGGACAGT
TACTCCCTGATAACTTCATAGCTGCCTGTACAGAAAAGAAATCCCGTTGTTTTTCGATTGCAAGAGGA
TTATGATCATAGCTACTTTCATTGCAACCTTTATTACTGACCACATCAGACATCATGCTAAATACCTG
AATGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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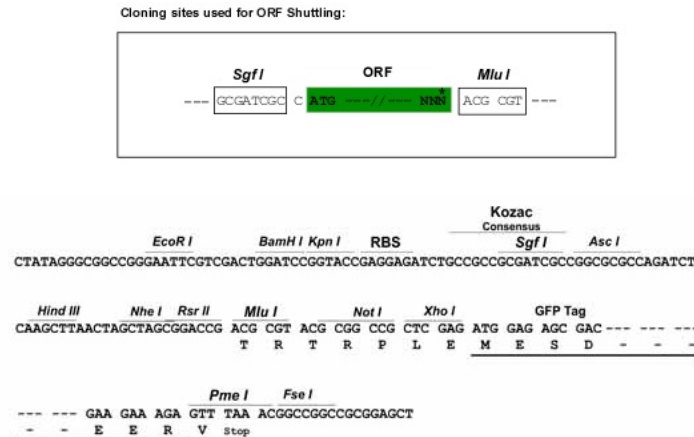
Protein Sequence: >RG200533 representing NM_001984
 Red=Cloning site Green=Tags(s)

MALKQISSNCKFGGLQKVFEHDSVELNCKMKFAVYLPKAETGKCPALYWL SGLTCTEQNFISKSGYHQS
 ASEHGLVVIAPDTSPRGCNIKGEDESWDFGTGAGFYVDATEDPWKTNYRMYSYVTEELPQLINANFPVDP
 QRMSIFGHSMGGHICALKNPGKYKVSFAFAPICNPVLCPWGKKAFSGYL GTDQSKWKAYDATHLVKS
 YPGSQLDILIDQGKDDQFLLDGQLLPDNFIAACTEKKIPVVFRLQEDYDHSYYFIATFITDHIRHHAKYL
 NA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001984

ORF Size: 846 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001984.1](#), [NP_001975.1](#)

RefSeq Size: 1208 bp

RefSeq ORF: 849 bp

Locus ID: 2098

UniProt ID: [P10768](#)

Cytogenetics: 13q14.2

Gene Summary: This gene encodes a serine hydrolase that belongs to the esterase D family. The encoded enzyme is active toward numerous substrates including O-acetylated sialic acids, and it may be involved in the recycling of sialic acids. This gene is used as a genetic marker for retinoblastoma and Wilson's disease. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RG200533