

Product datasheet for **SC310576**

ESD (NM_001984) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ESD (NM_001984) Human Untagged Clone
Tag:	Tag Free
Symbol:	ESD
Synonyms:	FGH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001984 edited
 CAGCAATTGGACAGGAAAAGAATGGCATTGAAGCAGATTTCCAGCAACAAGTGCTTTGGG
 GGATTGCAGAAAGTTTTTGAACATGACAGTGTTGAACTAAACTGCAAAATGAAATTTGCT
 GTCTACTTACCACCAAAGGCAGAAACAGGAAAGTGCCCTGCACTGTATTGGCTCTCAGGT
 TTAACCTGCACAGAGCAAATTTTATATCAAATCTGGTTATCATCAGTCTGCTTCAGAA
 CATGGTCTTGTTCATTGCTCCAGATACCAGCCCTCGTGGCTGCAATTTAAAGGTGAA
 GATGAGAGCTGGGACTTTGGCACTGGTGTGGATTTTATGTTGATGCCACTGAAGATCCT
 TGGAAAACCAACTACAGAATGACTCTTATGTCACAGAGGAGCTTCCCCAACTCATAAAT
 GCCAATTTCCAGTGGATCCCCAAAGGATGTCTATTTTTGGCCACTCCATGGGAGGTCAT
 GGAGCTCTGATCTGTGCTTTGAAAAATCCTGGAAAATACAAATCTGTGTCAGCATTGCT
 CCAATTTGCAACCCTGTACTCTGTCCCTGGGGCAAAAAGCCTTTAGTGGATATTTGGGA
 ACAGATCAAAGTAAATGGAAGGCTTATGATGCTACCCACCTTGTGAAATCCTATCCAGGA
 TCTCAGCTGGACATACTAATTGATCAAGGAAAGATGACCAAGTTTCTTTTAGATGGACAG
 TTAACCTGATAACTTCATAGCTGCCTGTACAGAAAAGAAAATCCCCGTTGTTTTTCGA
 TTGCAAGAGGGTTATGATCATAGCTACTACTTCATTGCAACCTTTATTACTGACCACATC
 AGACATCATGCTAAATACCTGAATGCATGAAAAAACTCCAATAAGAGAATCTCTTCAGG
 ATTATAAAAGTTGTAATGCAACTGTATTGCTGAGCAAAAAAAAAAAAAAATTCAAAACA
 TTGGATTTTATAGTGCTAAAAGGGCTTTATTCTATAGTTGAATCACCTCTGAATAAAGAT
 ATAAAACCTAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001984 unedited GATATTTGTATACGACTCACTATAGGGCGGCCGACAATTCGCACGAGGCAGCAATTGGA CAGGAAAAGATGGCATTGAAGCAGATTTCCAGCAACAAGTGCTTTGGGGATTGCAGAAA GTTTTTGAACATGACAGTGTGAACTAACTGCAAAATGAAATTTGCTGTCTACTTACCA CCAAAGGCAGAAACAGGAAAGTGCCTGCACTGTATTGGCTCTCAGGTTTAACTTGACA GAGCAAAATTTTATATCAAAATCTGGTTATCATCAGTCTGCTTCAGAACATGGTCTTGTT GTCATTGCTCCAGATACCAGCCCTCGTGGCTGCAATATTAAGGTGAAGATGAGAGCTGG GACTTTGGCACTGGTCTGGATTTTATGTTGATGCCACTGAAGATCCTTGGAAAACCAAC TACAGAATGTA CTCTTATGTCACAGAGGAGCTTCCCAACTCATAAATGCCAATTTTCCA GTGGATCCCAAAGGATGTCTATTTTTGGCCACTCCATGGGAGGTGATGGAGCTCTGATC TGTGCTTTGAAAATCCTGGAAAATACAAATCTGTGTCAGCATTGCTCCAATTTGCAAC CCTGTACTCTGTCCCTGGGGCAAAAAGCCTTTAGTGGATATTTGGAAACAGATCAAAGT AAATGGAAGGCTTATGATGCTACCCACCTTGTAATCCTATCCAGGATCTCAGCTGGAC ATACTAATTGATCAAGGAAAGATGACCAGTTTCTTTTAGATGGACAGTTACTCCCTGAT AACTTCATAGCTGCTGTACAGAAAAGAAAATCCCGTTGNTTTTCGATTGCAAGAGTT ATGATCATAGCTACTACTTCATTGCCACCTTTATTACTGACCACATCAGACATCATGCTA AATACCTCGATGCATGAAAAAATCCCAATAGAGAAATCTCTTTCAGATNACTAAAGTT GTANAATGCACTGTATTGCTGAGCACAAAAAAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001984 unedited NTTCTAGCTTGNCCGCGGCCGCTTCTANATCGAGTTTTTTTTTTTTTTTTTTAGGTTTT ATATCTTTATTTCAGAGGTGATTCAACTATAGAATAAAGCCCTTTTAGCACTATAAAATCC AATGTTTTGAATTTTTTTTTTTTTTGTCTCAGCAATACAGTTGCATTTTCAACTTTTATA ATCCTGAAGAGATTCTCTTATTTGGAGTTTTTTCATGCATTTCAGGTATTTAGCATGATGT CTGATGTGGTCAGTAATAAAGGTTGCAATGAAGTAGTAGCTATGATCATAACCCCTTTGC AATCGAAAAACAACGGGGATTTTCTTTCTGTACAGGCAGCTATGAAGTTATCAGGGAGT AACTGTCCATCTAAAAGAACTGGTCACTTTCCCTTGATCAATTAGTATGTCCAGCTGA GATCCTGGATAGGATTTCAAGGTGGGTAGCATCATAAGCCTCCATTTACTTTGATCT GTTCCCAAATATCCACTAAAGGCTTTTTGCCCCAGGGACAGAGTACAGGGTTGCAAATT GGAGCAAATGCTGACACAGATTTGTATTTCCAGGATTTTTCAAAGCACAGATCAGAGCT CCATGACCTTCCATGGAGTGGCCAAAAATAGACATCCTTTGGGGATCCACTGAAAAATTG GCATTTATGAGTTGGGGAAGCTCCTCTGTGACATAAAGACATTCTGTAGTTGGTTCTC CAAGATCTTTAGTGGCATCAACATAAAATCAACACCAAGTGCCAAACCCAGCTCTCATCT TCACCTTAATATTGCAGCCCCCAGGGCTGCGATTTGGAGCAATGACAACAAGACCATG TTNTTGAACCACACTGCGATAACCCGATTTTGTACTAAAATTCTGCCCTTGGCCAGTTTA AN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001984
Insert Size:	1100 bp
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_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]