

Product datasheet for **SC102451**

ESD (AK093643) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ESD (AK093643) Human Untagged Clone
Tag:	Tag Free
Symbol:	ESD
Synonyms:	FGH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK093643, the custom clone sequence may differ by one or more nucleotides

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GTCTATTTTTGGCCACTCCATGGGAGGTCATGGAGCTCTGATCTGTGCTTTGAAAAATCCTGGAAAATAC
AAATCTGTGTCAGCATTGCTCCAATTTGCAACCCTGTACTCTGTCCCTGGGGCAAAAAAGCCTTTAGTG
GATATTTGGGAACAGATCAAAGTAAATGGAAGGCTTATGATGCTACCCACCTTGAAATCCTATCCAGG
ATCTCAGCTGGACATACTAATTGATCAAGGAAAAGATGACCAGTTTCTTTTAGATGGACAGTTACTCCCT
GATAAATTCATAGCTGCCTGTACAGAAAAGAAAATCCCGTTGTTTTTCGATTGCAAGAGGCAAGTATTA
GGAAAATTTAGCTTGATCTAGATAATGTAAGTAAATGAAAAATAGGATTCTGTGATATTTTCTTAACCTTA
TTTTAGAATATAAAATGCTACTTCTAGTAAGTTTTTAATTATATTCAGACACTTGAAGTAAAACTGCC
TATAAAATTAATTATATCTAACACTAAATTTGATAGAAAATAGGAAAAGCTTTTGGCAGTGAAAAATATTGT
TTTCCATCAAACAGTAAATAACAAGATTTTTAATGCTTGAATGATGATTAATCTTCAGCATTAGCAGAT
ACTTCTTTCTTTACACATGGACCTTTGCTGCAGTAGAATAAAAAGGACAAAATTTCTACCTAAATTAATCC
TTATTTTATGTATATATTTTAGCCTCAGAAGTTAAGTATTATTTATCACACATGTGCTTTATATTATTTG
ACTTTTCATATTAATCTATTTCATTGTGCTACTTGATATTTCTAGTTGTTTTAAGAATAATTACTGAATCCCA
ATGGGCTTGCAAGTTTTTTTTAACTAAAATATTTTTGACCGTCCACTACTCACCTAACTCTATATATGCT
ACCATAGTCCTAATTAAGGAAGTTCTGCTTTTATTTTTAAGAAAATTCATAAGCTTCAGAATATAATTT
AAAATATTTTAGAGTGAAAAATGAGCACTGAAAATATACATGGTCATGATTTTTAAATAAATTTTTATC
CATGTTTAAGGATAATGTGTACAGGCACATTGATCTAAAATGTAATTACAATGGTAAATGTTCAAATCTAG
ATCAGTGTGTAATGTGGTACATTAGTTTGTAAAATGCTTTTACAGCATTAACTCATTGTTAATCTTATA
CCGCCAAATGAGATATCATTTCTTTCTATCCATCTGTTTTACAAATGAGGAGACAGGCTCAGAGAAGTA
ACCTACTTATCTAAGGCCACATAGCTAGTAAGTGGTGGAAACCAGAAGTGAAGTAAAGGCAATTTAACTGC
AAATACTGACCTCCTGTCAATTTATCAAGCCATTTTCAGACGGCATGATGTTCTCCTGAGGAGCAAAGGAA
TGGAATTAGAGCTAGCACAAGGAGAAAATGTGCATAGCTTGCTGCCTACGTAAGTTATGCAGAAATCTG
AGCAGTCTTCTGTTTTAGGGATATTTGCACATGTGAACTATATAGTGAGAAAATGTCAAAAATAAT
ACATGATATACTGTTTGTCTCTTAGTGTCCATCCTTGAGTAATAGAATTTGTTTTAGATTTATTTGAAC
ATTTACCATCACAATTAATTTTAGGTCAACAACCAGCCTTGAGAAAATCCAAATACCAATTTGACTATAA
ATATAGTAATACGTTTAACTGCAATAACTATAGCTATAAGTGCCTACCAAACCATGTTTTTCCAAATGA
CCTTAATTTCTTGGCACTACCCATGTTGGATACCTCATTTGCTTCCCAAAGACTGTGCCAAAAATTTCT
GTTGTTCTACAATGATTCTGCCTGCCAACAAAGTCTGAAAATCTCTCAAGTTTGTATAAAAACAGCAC
AGTTAGAACATGATGACATTCCTGGAGGAAAAATAAGTCCACTTATTTGTTTCTAAAATGCCTGTATCC
CAAGCAACTAGAACATAGTTGGCTATACTTAATGAGGAGTCAAGACAAACCATTCAAATCTTCTAAAA
AAGTAAGAAAGTATTCAAAGCACAGAGTCACAATGTTGAGCTCAGGTGCAATTTTCTATTCACCTTACT
TCCAGCATGGTCGGGTTAAGAGTGGACTACATAGCTTGAAGCGGATTTTCGTTGAGATTGTTGTAATTGA
ATCAACAAGTGAATGAGCATGCCTAAGTAGTGGCTCCAGAGAGTCTGCTTTCAGATTTTCTTGGCAGCTT
TGACCCAAGATTACCCTGGGCTGCGAGTTTTATCACCTGCTTTATCATTGATTACAAGTATAGTATAA
CTGTATTTCTTGTGGGATAGAAGCTGTAATAAAGCTGAAAATAATAGGGGATATATAAATAAACGA
TCTGAGAAAGAATAAAGAAAATAATTAC
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK093643 unedited CGGCCGGAATTCGGCACGAGCTATTTTGGCCACTCCATGGGAGGTCATGGAGCTCTGATCTGTGCTTTGAAAAATCCTGGAAAATACAAATCTGTGTCAGCATTTGCTCCAATTTGCAACCTGTACTCTGTCCCTGGGGCAAAAAGCCTTAGTGGATATTTGGGAACAGATCAAA GTAATGGAAGGCTTATGATGCTACCCACCTTGTAATCCTATCCAGGATCTCAGCTGG ACATACTAATTGATCAAGGAAAAGATGACCAGTTCTTTTAGATGGACAGTTACTCCCTG ATAAATCATAGCTGCCTGTACAGAAAAGAAAATCCCGTTGTTTTTCGATTGCAAGAGG CAAGTATTAGGAACTTAGCTTATGATAATGTAACATGAAAAATTAGGATTCTG TGATATTTTCTAACTTTATTTAGAATATAAAATGCTACTTCTAGTAAGTTTTAATTA TATTCAGACACTTGAAGTAAAACCTGCCTATAAAATTAATTATCTAACACTAAATTT GATAGAAATAGGAAAGCTTTGGCAGTAAAAATATTGTTTTCCATCAAACAGTAAATA ACAAGATTTTTAATGCTTGAATGATGATTAATCTTCAGCATTAGCAGATACTTCTTTCTT TACACATGGACCTTTGCTGCAGTAGAATAAAAGGACAACTTCTACCTAAATTACTCCTT ATTNTATGTATATATTNTAGN
Restriction Sites:	NotI-NotI
ACCN:	AK093643
Insert Size:	6000 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).
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:	AK093643.1
RefSeq Size:	2408 bp
RefSeq ORF:	2408 bp
Locus ID:	2098
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]