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Product datasheet for SC124751

Eco1 (ESCO1) (NM_052911) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Eco1
Synonyms:	A930014I12Rik; CTF; ECO1; EFO1; ESO1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC124751 sequence for NM_052911 edited (data generated by NextGen Sequencing)

ATGATGTCCATTCAGGAGAAATCAAAAGAGAATTCCTCCAAAGTTACTAAAAAAAGTGAC
GATAAGAATTCAGAAACAGAAATTCAGGATTCTCAAAAGAATCTAGCAAAAAAATCAGGT
CCAAAGGAGACTATAAAATCACAGGCTAAATCTTCCAGTGAAAGTAAAATAAATCAGCCA
GAATTGGAAACACGCATGAGTACAAGGTCATCAAAGGCAGCATCTAATGATAAAGCTACT
AAATCCATTAATAAAAATACGGTGACTGTGAGGGGATATTCACAAGAATCTACAAAAAAG
AAATTATCTCAGAAAAAATTAGTACATGAAAACCCTAAAGCAAATGAACAGCTTAACCGG
AGATCACAAAGGCTACAACAATTAACAGAGGTTTCAAGAAGGTCGTTACGCAGTAGAGAA
ATTCAGGGTCAAGTTCAAGCAGTTAAACAGAGTTTGCCACCAACTAAAAAAGAGCAGTGT
AGCAGTACTCAGAGTAAATCTAATAAAACAAGTCAAAAACATGTGAAGAGAAAAGTACTG
GAAGTAAAGTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTAATAAATTCT
CCCAAAGGGAAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGTAGTTCTCAATGC
ATGCAAGGATCTGAAAAGTGTCCTCAGAAGACTACTAGAAGAGACGAAACGAAACCTGTG
CCTGTAACTTCTGAGGTGAAAAGATCAAAAATGGCTACTTCAGTGGTCCCGAAAAAGAAT
GAGATGAAGAAGTCGGTTCATACACAAGTGAATACTAACACAACACTCCCAAAAAGTCCA
CAGCCATCAGTGCCTGAACAAAGTGATAATGAGCTGGAGCAAGCAGGAAAGAGCAAACGA
GGTAGTATTCTCCAGCTCTGTGAAGAAATTGCTGGTGAAATTGAGTCAGATAATGTAGAG
GTAAAAAAGGAATCTTCACAAATGGAAAGTGTAAAGGAAGAAAAGCCCACAGAAATAAAA
TTGGAAGAGACCAGTGTTGAAAGACAAATACTTCATCAGAAGGAAACAAATCAGGATGTG
CAATGTAATCGTTTTTTCCCAAGTAGAAAAACAAAGCCTGTGAAATGTATACTAAATGGA
ATAAACAGCTCAGCCAAGAAGAACTCCAACTGGACTAAAATTAAACTCTCAAAATTTAAC
TCTGTGCAGCACAATAAGTTGGACTCTCAAGTTTCCCCTAAATTAGGCTTATTACGAACC
AGTTTTTCACCACCAGCTTTAGAAATGCATCATCCAGTGACTCAAAGTACATTTTTAGGG
ACAAAGCTACATGATAGAAATATAACTTGCCAGCAGGAAAAAATGAAAGAAATTAATTCT
GAAGAAGTGAAAATTAATGATATTACAGTAGAAATTAATAAAACCACAGAAAGGGCTCCT
GAAAATTGTCATTTGGCCAATGAGATAAAACCTTCTGACCCACCATTGGATAATCAGATG
AAACATTCTTTTGATTCAGCATCAAATAAGAATTTCAGCCAATGTTTGGAATCCAAGCTA
GAAAACAGTCCAGTGGAAAATGTTACTGCTGCTTCGACTCTGCTCAGTCAAGCAAAAATT
GATACAGGAGAGAATAAATTTCCAGGTTCAGCTCCCCAACAGCATAGTATTCTCAGTAAC
CAGACATCTAAAAGCAGTGATAACAGGGAGACACCACGAAATCATTCTTTGCCTAAGTGT
AATTCCCATTTGGAGATAACAATTCCAAAGGACTTGAAACTAAAAGAAGCAGAGAAAACT
GATGAAAAACAGTTGATTATAGATGCAGGACAAAAAAGATTTGGAGCAGTTTCTTGTAAT
GTTTGTGGAATGCTGTATACAGCTTCAAATCCAGAAGATGAAACACAGCATCTGCTTTTC
CACAACCAGTTTATAAGTGCTGTTAAATATGTGGGCTGGAAGAAAGAAAGAATTCTGGCT
GAATACCCTGATGGCAGGATAATAATGGTTCTTCCTGAAGACCCAAAGTATGCCCTGAAA
AAGGTTGACGAGATTAGAGAGATGGTTGACAATGATTTAGGTTTTCAACAGGCTCCACTA
ATGTGCTATTCCAGAACTAAAACACTTCTCTTCATTTCCAATGACAAAAAAGTAGTTGGC
TGCCTAATTGCGGAACATATCCAATGGGGCTACAGAGTTATAGAAGAGAAACTTCCAGTT
ATCAGGTCAGAAGAAGAAAAAGTCAGATTTGAAAGGCAAAAAGCCTGGTGCTGCTCAACA
TTACCAGAGCCTGCAATCTGCGGGATCAGTCGAATATGGGTATTCAGCATGATGCGTCGG
AAGAAAATTGCTTCTCGCATGATTGAATGCCTAAGGAGTAACTTTATATATGGCTCATAT
TTGAGCAAAGAAGAAATTGCTTTCTCAGATCCCACTCCTGATGGAAAGCTGTTTGCAACA
CAGTACTGTGGCACTGGTCAATTTCTGGTATATAATTTTATTAATGGACAGAATAGCACG
TAA

Clone variation with respect to NM_052911.2
662 c=>t;1311 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_052911 unedited
GAGGGCGCCGCGGGGGAGGCGGCGGCCGCAGCAGAAGCAGCTGAGTGTCTCCTGATACCC
GGATGTGAGGCGATCCGCTGGCGCTAGTCTGACCCTCCGCCAGGCAAAAGGAAGATTGTC
TTTGGCTATAGAGTTTTTTTTTTTAAAGATTACTAAACATACAGGAAGTGATAAGAAGTA
TCATTCATCAGAAGCATCATTCATCAATCAACTTGAAGAAAAAGGTGATATATTATTTCT
TTAAGGTGCTGTGTGATGTGTTAAGAGCATATTAGAAGGAATGGTTTTGTCTAATTTTCT
TCATGAGTTATGGTGGCTGAGACATCGAGTCTATATTTTGGGGCAAAAACTAAACGGCAG
CACAAAAGGAAATCTATATTAATAGAATATTTTGTTGAACAAAGGAGGTTAGATAAGAAC
TGCAAACCAACAGACTCAGCAAACAAGGAAAGAAACGTGTTAGCCATAAGACATGTTTCA
AGTGAATCGAAGTCCAATAACTGTAGACTTCAGAAGAAAAAAGTTTTCAAAAATTTTATC
AAAACAGGTCACTGATAAATAACTCCTCCAGTAATAGAGCTAGGCCTGAAACCAAAATTA
ATTAAAAAATTAACAAAACAGATTGAACCTGAATTAAATNTCTTTTGATAAAAAAACTTA
TTAAAAATAATCAAAATTTTCCTCAAATTTTTATTACCTTGTCCAAAGTAAAGCAAGTGT
CTTTTAGCATTCATGCCAGCTNTTNCTCATGTTCTANGAATGACAGAAACCTTACTTGAA
GCANACTAGTAATTTTGGTTGAAATGTATATCAGCATCAGTTAAAGGTGATTTTTCAGAC
TGCTCCTCAGTAATATACTAGC

Restriction Sites: NotI-NotI

ACCN: NM_052911

Insert Size: 5000 bp

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_052911.1, NP_443143.1
RefSeq Size:	4435 bp
RefSeq ORF:	2523 bp
Locus ID:	114799
UniProt ID:	Q5FWF5
Cytogenetics:	18q11.2
Gene Summary:	ESCO1 belongs to a conserved family of acetyltransferases involved in sister chromatid cohesion (Hou and Zou, 2005 [PubMed 15958495]).[supplied by OMIM, Mar 2008]