

Product datasheet for **RC224781**

ESCO2 (NM_001017420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ESCO2
Synonyms:	2410004I17Rik; EFO2; EFO2p; hEFO2; JHS; RBS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >RC224781 representing NM_001017420
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCTCTTACTCCAAGGAAGAGGAAGCAGGATTCTTTGAAGTGTGACAGCCTTTTACACTTCACTG
AAAATCTGTTTCCATCACCTAATAAAAAGCACTGTTTTATCAAAACAGTGATAAAAATGAAGAAAACCT
GCATTGCTCTCAACAAGAGCATTGTTTAAAGTGCCTCAAAACAAGTAAATAGACTGCCATCA
GCAATCAAGGCTCACCATTAAATCTGCGCTCTCCACTGTATCTTTTACAACCAAAATAGTGGTACC
TCAATCCATGGAGAGAAAGCTGATAAAGAGAGTAGACTACTTGTCTAAAACTAATGATGAAGATAA
ATCTTTTCCATTGTGACAGAAAAATGCAAGGAAAACCAAGTCTGCTCCAAGAAGAACCAAAAAACCA
CAGAAGAGTTTAACTGTAAGTATCAACCAAGTATAGACACATCAAGCCTGTATCAAGGAATTCTAGAA
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ATCCAAGCTTTGCTATCAAAAAGGTAGAAGATGCCAAGAAGTGTGATAATGAATTGGGCTTCCAGCA
AGTTGTTCTAAATGTCCAAACAAAATAAAACCTTTTCTTTTATATCTGATGAAAAGAGAGTAGTTGGG
TGTTTAATTGAGAACCCATCAACAGGCATTTCTGTGCTGTCTGAACCAATTGGTCCAGAAATCCCAA
GCTCTACGGAATGCTAGGGCTTGCAATGTTTCAGATGTACCAGAACCTGCAGTCTGTGGGATAAGTAG
AATCTGGGTTTTCAGACTGAAGAGAAGAAAGCGCATTGCAAGACGACTGGTTGATACCTCAGGAATTGC
TTCATGTTGGCTGTTTCTCAGCACTGATGAAATAGCATTCTGACCAACACCAGATGGCAAGTTAT
TTGCAACCAAGTACTGCAACACCCCTAATTCCTCGTATATAATTTAATAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224781 representing NM_001017420
Red=Cloning site Green=Tags(s)

MAALTPRKRKQDSLKCDLHFTENLFPSPNKKHCFYQNSDKNEENLHCSQQEHFVLSALKTTEINRLPS
ANQGSFPKFSALSTVSFYQNKWYLNPLERKLKESRSTCLKTNDEKSFPIVTEKMQKPVCSKKNKKP
QKSLTAKYQPKYRHIKPVSRNSRNSKQNRVIYKPIVEKENNCHSAENNSNAPRVLQKIKPQVTLQGGAA
FFVRKKSSLRKSSLENEPSLGRTQSKSEVIEDSDVETVSEKKTATRQVPKCLVLEELKIGLLSASSK
NKEKLKIDSSDDRVSSEKHKVDKNEAFSSDSLGENKTISPSTVYPIFSASSVNSKRSLGEEQFSVGSV
NFMKQTNIQKNTNTRDTSKKTQDLIIDAGQKHFGATVCKSCGMIYTASNPEDEMQRVQHHRFLEGIKY
VGWKKERVVAEFWDGKIVLVPHDPSFAIKKVEDVQELVDNELGFQVVPKCPNKIKTFLFISDEKRVVG
CLIAEPIKQAFRVLSEPIGPESPSSTECRAWQCDVPEPAVCGISRIWVFRLLRRKRRIARLLVDTLRNC
FMFGCLSTDEIAFSDPTPDGKLFATKYCNTPNFLVYNFNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6157_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001017420

ORF Size: 1803 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.

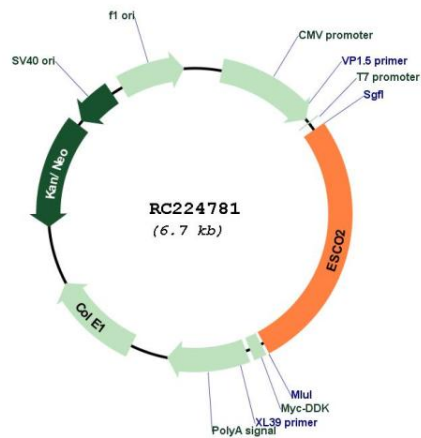
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001017420.3](#)

RefSeq Size: 3376 bp
 RefSeq ORF: 1806 bp
 Locus ID: 157570
 UniProt ID: [Q56NI9](#)
 Cytogenetics: 8p21.1
 MW: 68.1 kDa

Gene Summary: This gene encodes a protein that may have acetyltransferase activity and may be required for the establishment of sister chromatid cohesion during the S phase of mitosis. Mutations in this gene have been associated with Roberts syndrome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224781