

Product datasheet for **MR209232**

Esco2 (NM_028039) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esco2 (NM_028039) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esco2
Synonyms:	2410004I17Rik; D030072L07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209232 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGGCAACTTGACTCCAAGAAAGAGGAAGCGATATACACTGAATGCTGATAATGATGATAGCCTAT
 TAACAGATATTTTCATCAAGCAAATTAAGATGTGCTGAAAAATCTATTTCCATCACCTAATAAGAAACATAA
 TTATCAAAGCAGTGTTCAAAGGAAAGACAAGTCTTGCTCCACCAACTCCATTTCCCTTCAAGTCCACTC
 AAAACAACGAAAATAGTAGGTTTTCATTTGCAAACCACAGCTCATTATTTAAACCAGCTATGTCTACTG
 TATCTTTCTACAGTAAAGAGAAATACTACCTCAATCCACTCGAGAGGAAGTTGATAAGAGAGTGTAGATC
 TATTTGTCTAGCAACTGAAAGTGGAGATAAACCTATCCAGTGTGACAGAAAATATTAGAGAAAAACCA
 GTCTGTACCAAGAAGAATAAAAAAACAGAAGAGTTAACTGCCAAATATCAACCAAATTATAAGCACA
 TCAAGTCTAAATCAAGAAACCTGAAAAATTCAGCCAAATCAAGTGACCTATAAGCCAGTTGTGGACCA
 AGAGAACAGTTGTTTTCCAGCAAAAAATATCCAAATTCCTCCTCGGTTCTGAGCAAAAAAATAAG
 CCTCAAGTTACACTCCAAGGCGGAGCAGCATTTTTCGTTAGGAAAAGAACTCTCTTAAAAAGTTACCTC
 TGGAAGATAAGCCCTTACTTTTTGCAGAAAAATTTACCAGAAGTCCCTGAAGGTGCTCCAGAGGCAAAGCA
 AATACCAAAGTCTTGTTAGTGGATGAGAAATCGAGTGTAAAGTACAGAATGCAAGAAGTAAAAATGAA
 GAGAACTGAGAAAGAATCCCTCAGGTGCAGTAGTTTCTTCAAAGGAATGTAACCTTGATAAACATGATT
 TTCCTTCAGAGAATTCACCTGATGAGAACAAGACAATTTCCCAAGTCTGTCTATCCTATCTTCAATGT
 TTCTTCAGTGAACAAAAAGACCTGAAGAACAGTCTTCTGTGGGATCCACTGCATGTAACCTCTTG
 AAACAGACAAAATGTACCGAAAAATTAATTCAGAGATACAAAATAAGGAGGAAAAAGACCAGCTCGTCA
 TTGACGCAGTCCAGAAACATTTTGGGACGACTGTGTAAAGTCTGTGGCATGATCTATACTGCTCCAA
 CCCTGAAGACGAAATACAACATCTCCAACATCACACCGATTTCTGGAAGGAATTAATTCGTGGGCTGG
 AAAAGAGAACGGGTAGTAGCAGATTTTTGGGATGGGAAGATTGTGTTGGTCTGCACGATCCAAAGT
 ATGCCATCAAAAAGGTAGAAGATGTCCAAGAACTGTGGATCTGGAATGGGTTTCCAGCAGACTGTTCC
 CGTGTGTCAGACAAAACCAAACCTTCTCTTTATTGATGAGAAGAGAGTAGTTGGATGTTAATTGCG
 GAACCCATCAAACAGGCCTTTCGTGCTGTGAGAACCAAGTCCAGTAAAGAATGTTCTAGAGCTTGGC
 GGTGTTCCAGATGTACCAGAACCTGCAATTTGTGGAATAAGTAGAATCTGGGTCTTCAGACTAAAAAGAAG
 GAAGCGCATTGCAAGACGACTGGTTGACTGTGAGGAATGCTTCATGTTGGCTGTTCTCAGCACT
 AATGAAATTCATTTTCTGACCAACACCAGATGGCAAAATTTTGAACCAAGTACTGCAACACCCCAA
 ATTTCTTGATATAATTTTCATAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209232 protein sequence
 Red=Cloning site Green=Tags(s)

MMATCTPRKRKRYTLNADNDDSLLDIISSSKLRCANLFPSPNKKHNYQSSVQRKDKSCSHQLHFPSSPL
 KTTENSRLFANHSSLFKPAMSTVSFYSKEYLNLPLERKLIRECRSICLATESGDKPIPSVTENIQRKP
 VCTKKNKKKQKSLTAKYQPNYKHKSKSRNLKNSKPNQVYKPVVDQENSCFPAKNYPNSPPRVL S QKIK
 PQVTLQGGAAFFVRKNSLKKLPLEDKPLLLQKNLPEVPEGAPEAKQIPKSLLVDEKSSVKVQNARSKNE
 EKLRKNPSGAVVSSKECNLDKHDFPSENLDENKTI SPESVYPIFNVSSVNTKRPEEQSSVGSTACTNFL
 KQTNVPKNINSRDTNKGKQDLVIDAGQKHF GTTVCKSCGMIYTAASPEDEIQHLQHHRFLEGIK FVGW
 KRERVVAEFWDGKIVLVLPDPYSYAIKKVEDVQELVDLELGFQQTVPVCPDKTKTFLFIDEKRVVGLIA
 EPIKQAFRVLSEPSASKECSRWRCSVDVPEPAICGISRIWVFRKRRKRIARRLVDTVRNCFMFGCLST
 NEIAFSDPTPDGKLFATKYCNTPNFLVYNFHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_028039

ORF Size: 1779 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.

RefSeq: [NM_028039.1](#), [NP_082315.2](#)
RefSeq Size: 2899 bp

RefSeq ORF: 1779 bp

Locus ID: 71988

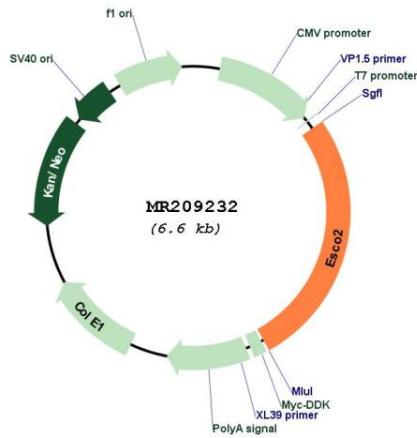
UniProt ID: [Q8CIB9](#)

Cytogenetics: 14 D1

MW: 67.3 kDa

Gene Summary: Acetyltransferase required for the establishment of sister chromatid cohesion. Couples the processes of cohesion and DNA replication to ensure that only sister chromatids become paired together. In contrast to the structural cohesins, the deposition and establishment factors are required only during the S phase. Acetylates the cohesin component SMC3. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209232