

Product datasheet for **MC222011**

Esco1 (NM_001081222) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esco1 (NM_001081222) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Esco1
Synonyms:	A930014I12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222011 representing NM_001081222

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGTCATTTCAGGAGAAATCAAAAGAAATTCCTCCATAGTTACTAAAGAAAGTGAAGATGAGAATTAG
AAGAAGAAGTTGAAAGTTCTCAGAACAGTCCAACAAAGAGTCAGGCTCCAAGGAAGCTGTAAAGACACC
AGTTAGATTTTCCAACAAAAGTAAACAAATGAGTCTGAATTTGGAATGCGAATGAGTACAAGGTACAGCA
TCATGTTTCAGCTGATAAACTGCTACTAACTCCTTTAATAAAAAATACAGTAACTTTGAAGGGACAATCAC
AAGAATCTTCAAAACGAAGAAATTATGTCAGGAAAAATATCACTTGGAATCTTGAAAGGGAATGAACA
GCTTCACCGCAGATCACAAAGACTACAGCAGTTAACAGAGTGTACAACCAGGTCTTTCGCGAGTAGAGAG
ATTCATGGTCAAATTCAAACAGTTAAACAGAATCAGCAATCAGCAAGAAGAGAACAATGTAAACGTAATC
AAAGTAAATGTAATAAGGTTAAGGTAATCAAAAGCATGTGAAAAGAAAAGTGTGAAATCAAGTCTGA
TTGTAAGGAGGACAGGCATTTCAGTTACAAATGAAGTAATAAATTCCTCCAAAGGAAAGAACGCGAAAGTA
CAGCATCAGACAACTTCTACTTGTAGTTCTCAGTGCAACCAAGGGTCTGAAAAATGTCTCCAGAAGACTA
GTAGAAAAGAAGAAATAAACCTGTGCCTGTAAGTGTGATATTAGAAAATTAAGAGCAGTACTTTCAGT
GGTCTCTAAAAAGAATGAACTGAGGAAATCAGCTCATACACAAGTGAAGTACTAGCACAAAACGCCCCAA
ATCCCACTGCCACTAGTGCCTGAACACAGTGTGACCAGGAATGGAGCAAGCTGGAAGAGCAAAAGAG
GTAGCATTCTCCAACCTGTGGAAGAAATGCTGGTGAAATTTGAATCAGATACTGTAGAGGTAAAAAGGA
ATCATCATGTGTGAAAGTGTAAAGGAGGAGAAGCCTGCAGAGGTAAAGTGAAGGACCGATGCTGAA
AGACAAATACTCCATCATAAAGAAGCCAACAGGATGTGCGCTCTAATCGGTTCTTCCAGTAGGAAAA
CAAAGCCTGTGAAATGCGTACTAAATGGAATAAATAGTCAACTAAGAAGAACTCCAAGTGAAGTAAAT
TAAGCTTTCAAAATTTAACTCTGTGCAAGCAACATAAATTGGACTCTCAAGTGTCTCCTAAGTTGAAGTTA
TTACAAACTGGTTTGTCAACATCAGTTTTAGAAATGCCTCATCCAGTGTCCCAAGTACATTTTTAGAGA
TGAAAGCGCATGGTAATGTAAGTGTGCAACGGGATAAAATGAAAGGAATTAATCTGAAGAAGTTAAAT
TAATAATATTGCAATTGAAATTAATAAGCCACAAAAAGGGATCCTGGAATTTGAATTTGGATAACCAT
ATTAAACCCTCTCCTGACTCATCTGGATAATCAGATGAACTTTCTTGTGAGTCAGCACCAGATCAGA
ATTTTCAGCATATGTTTCAGCATCTGAGGTGGAGACTAATCCATTAGAAAACACTGCTGCTGCCTCACTCT
TCTCAGTCAAGCTAAGATTGATGAGGACAGAACATTTCCAGGTTTCAGTCTCTAATCAGCAGCACAGTGTA
CTCAGTGTGAAGCGTCTATCAACAGAAAGAACAGGGATGTACCACCAACCATTTCTCAGCTGAAGCATG
ATTCTCATTTGGAGATAACAATTCAAAGTCCTTGAAACTGAAAGACTCAGAGAAAGTGGATGAAAAACA
GCTGGTCATAGATGCAGGACACAAACGATTTGGAGCAGTGTCTGTAATATCTGTGGAATGCTCTATACA
GCTTCAAATCCAGAAGATGAAACACAGCACCTGCTTTCCACAACCAGTTTATAAGCGCTGTAAAGTATG
TGGGCTGGAAAAAGGAAAGAAATCTTGCTGAATATCCTGATGGTGAATAATAATGGTTCTTCTGGAAGA
CCCAAAGTATGCCCTGAAAAAGGTTGATGAAATTAGAGAGATGGTTGACAATGATCTGGGTTTCCACAG
GCTCCATTGATGTGCTATTCCAGAACTAAGACACTTCTCTTTATTTCTAATGACAAAAAAGTAGTTGGTT
GCCTAATTGCAGAACATATCCAGTGGGGCTATCGAGTTATAGAAGAGAACTTCCAGTTATCAGGTCAGA
AGAAGAAAAAGTCCGATTTGAAAGGCAAAAGCCTGGTGCTGCTCAACATTGCCAGAGCCTGCAATATGT
GGGATCAGTCGGATATGGGTGTTTCAGCATGATGCGGCGGAAGAAGATAGCTTCTCGCATGATTGAATGCC
TAAGGAGTAACTTTATTTATGGCTCATATTTGAGTAAAGAAGAAATGCTTTCTCAGATCCCACTCTGTA
CGGAAAGCTGTTTGCAACACAGTACTGTGGCACTGGTCAGTTTCTGGTCTATAATTTTATCAATGGACAG
AATACCACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001081222

Insert Size:

2532 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:	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:	<u>NM_001081222.1, NP_001074691.1</u>
RefSeq Size:	4540 bp
RefSeq ORF:	2532 bp
Locus ID:	77805
UniProt ID:	<u>Q69Z69</u>
Cytogenetics:	18 A1
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 S phase. Acts by mediating the acetylation of cohesin component SMC3.[UniProtKB/Swiss-Prot Function]