

Product datasheet for **MG209232**

Esco2 (NM_028039) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esco2 (NM_028039) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Esco2
Synonyms:	2410004I17Rik; D030072L07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209232 representing NM_028039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGGCAACTGTACTCCAAGAAAGAGGAAGCGATATACACTGAATGCTGATAATGATGATAGCCTAT
 TAACAGATATTTTCATCAAGCAAATTAAGATGTGCTGAAAATCTATTTCCATCACCTAATAAGAAACATAA
 TTATCAAAGCAGTGTTCAAAGGAAAGACAAGTCTTGCTCCACCAACTCCATTTCCCTTCAAGTCCACTC
 AAAACAACGAAAATAGTAGGTTTTCAATTTGCAAACCACAGCTCATTATTTAAACCAGCTATGTCTACTG
 TATCTTTCTACAGTAAAGAGAAATACTACCTCAATCCACTCGAGAGGAAGTTGATAAGAGAGTGTAGATC
 TATTTGTCTAGCAACTGAAAGTGGAGATAAACCTATCCAGTGTGACAGAAAATATTCAGAGAAAACCA
 GTCTGTACCAAGAAGAATAAAAAAACAGAAGAGTTAACTGCCAAATATCAACCAAATATAAGCACA
 TCAAGTCTAAATCAAGAAACCTGAAAAATTCAGCCAAATCAAGTGACCTATAAGCCAGTTGTGGACCA
 AGAGAACAGTTGTTTTCCAGCAAAAAATATCCAAATTCCTCCTCGGTTCTGAGCAAAAAAATAAG
 CCTCAAGTTACACTCCAAGGCGGAGCAGCATTTTTCGTTAGGAAAAGAACTCTCTTAAAAAGTTACCTC
 TGGAAGATAAGCCCTTACTTTTTGCAGAAAAATTTACCAGAAGTCCCTGAAGGTGCTCCAGAGGCAAAGCA
 AATACCAAAGTCTTGTTAGTGGATGAGAAATCGAGTGTAAAGTACAGAATGCAAGAAGTAAAAATGAA
 GAGAACTGAGAAAGAATCCCTCAGGTGCAGTAGTTTCTTCAAAGGAATGTAACCTTGATAAACATGATT
 TTCCTTACAGAAATTCACCTGATGAGAACAAGACAATTTCCCAAGTCTGTCTATCCTATCTTCAATGT
 TTCTTCAGTGAACACAAAAAGACCTGAAGAACAGTCTTCTGTGGGATCCACTGCATGTAACCTCTTG
 AAACAGACAAATGTACCGAAAAATTAATTCAGAGATACAAAATAAGGAGGAAAAGACCAGCTCGTCA
 TTGACGCAGGTGAGAAACATTTTGGGACGACTGTGTGAAGTCTGTGGCATGATCTATACTGTTCCAA
 CCTGAAGACGAAATACAACATCTCCAACATCACACCGATTTCTGGAAGGAATTAATTCGTGGGCTGG
 AAAAGAGAACGGGTAGTAGCAGATTTTTGGGATGGGAAGATTGTGTTGGTCTGCACGATCCAAAGT
 ATGCCATCAAAAAGGTAGAAGATGTCCAAGAAGTGTGGATCTGGAATGGGTTTCCAGCAGACTGTTCC
 CGTGTGTCCAGACAAAACCAAACCTTCTCTTTATTGATGAGAAGAGAGTAGTTGGATGTTAATTGCG
 GAACCCATCAAACAGGCCTTTCGTGCTGTGAGAACCAAGTCCAGTAAAGAATGTTCTAGAGCTTGGC
 GGTGTTACAGATGTACCAGAACCTGCAATTTGTGGAATAAGTAGAATCTGGGTCTTACAGCTAAAAAGAAG
 GAAGCGCATTGCAAGACGACTGGTTGACTGTGAGGAATGCTTCATGTTGGCTGTTCTCAGCACT
 AATGAAATGCATTTTCTGACCAACACCAGATGGCAAAATTTTGAACCAAGTACTGCAACACCCCAA
 ATTTCTTGTATATAATTTTCATAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209232 representing NM_028039
 Red=Cloning site Green=Tags(s)

MMATCTPRKRKRYTLNADNDDSLLDIISSSKLRCAENLFPSPNKKHNYQSSVQRKDKSCSHQLHFPSSPL
 KTTENSRLFANHSSLFKPAMSTVSFYSKEKYLNPLERKLIRECRSICLATESGDKPIPSVTENIQRKP
 VCTKKNKKKQKSLTAKYQPNYKHKIKSRNLKNSKPNQVYKPVVDQENSCFPAKNYPNSPPRVLVSKQIK
 PQVTLQGGAAFFVRKRNLSKLLPLEDKPLLLQKNLPEVPEGAPEAKQIPKSLLVDEKSSVKVQNARSKNE
 EKLKRNPSGAVVSSKECNLDKHFPSNSLDENKTI SPESVYPIFNVSSVNTKRPEEQSSVGSTACTNFL
 KQTNVPKNINSRDTNKGKQDLVIDAGQKHFHTVCKSCGMIYASNPEDEIQHLQHHRFLEGIKFVWG
 KRERVVAEFWDGKIVLVLPRDPSYAIKKVEDVQELVDLELGFQQTVPVCPDKTKTFLFIDEKRVVGLIA
 EPIKQAFRVLSEPSASKECSRWRCSVDPEPAICGISRIWVFRKRRKRIARRLVDTVRNCFMFGCFLST
 NEIAFSDPTPDGKLFATKYCNTPNFLVYNFHN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<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:	NM_028039.1 , NP_082315.2
RefSeq Size:	2899 bp
RefSeq ORF:	1779 bp
Locus ID:	71988
UniProt ID:	Q8CIB9
Cytogenetics:	14 D1
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]