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Product datasheet for SC202001

Separase (ESPL1) (NM_012291) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Separase (ESPL1) (NM_012291) Human 3' UTR Clone
Symbol:	Separase
Synonyms:	ESP1; SEPA
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_012291
Insert Size:	194 bp
Insert Sequence:	>SC202001 3'UTR clone of NM_012291 The sequence shown below is from the reference sequence of NM_012291. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GCCTATGGCTTGCCTGTCTCTCTGCGGTAACCCCATGGAGCTGTCTTATTGATGCTAGAAGCCTCATAA CTGTTCTACCTCCAAGGTTAGATTTAATCCTTAGGATAACTCTTTTAAAGTGATTTTCCCCAGTGTTTT ATATGAAACATTTCCTTTTGATTTAACCTCAGTATAATAAAGATACATCATTTAAA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_012291.5

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Summary: Stable cohesion between sister chromatids before anaphase and their timely separation during anaphase are critical for chromosome inheritance. In vertebrates, sister chromatid cohesion is released in 2 steps via distinct mechanisms. The first step involves phosphorylation of STAG1 (MIM 604358) or STAG2 (MIM 300826) in the cohesin complex. The second step involves cleavage of the cohesin subunit SCC1 (RAD21; MIM 606462) by ESPL1, or separase, which initiates the final separation of sister chromatids (Sun et al., 2009 [PubMed 19345191]).[supplied by OMIM, Nov 2010]

Locus ID: 9700

MW: 7.2