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Product datasheet for RC201938

spindlin 1 (SPIN1) (NM_006717) Human Tagged ORF Clone

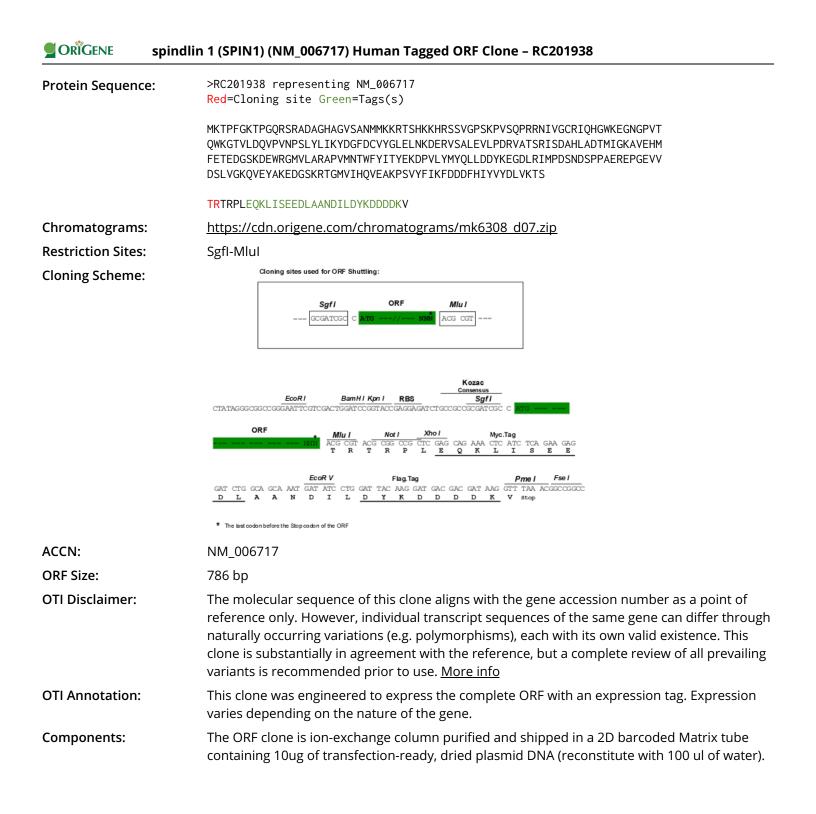
Product data:

Product Type:	Expression Plasmids
Product Name:	spindlin 1 (SPIN1) (NM_006717) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	spindlin 1
Synonyms:	SPIN; TDRD24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC201938 representing NM_006717 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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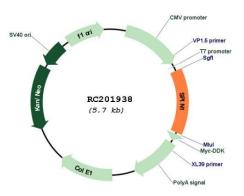
Spindlin 1 (SPIN1) (NM_006717) Human Tagged ORF Clone – RC201938	
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 006717.3</u>
RefSeq Size:	4535 bp
RefSeq ORF:	789 bp
Locus ID:	10927
UniProt ID:	<u>Q9Y657</u>
Cytogenetics:	9q22.1
Domains:	Spin-Ssty
MW:	29.4 kDa
Gene Summary:	Chromatin reader that specifically recognizes and binds histone H3 both trimethylated at 'Lys- 4' and asymmetrically dimethylated at 'Arg-8' (H3K4me3 and H3R8me2a) and acts as an activator of Wnt signaling pathway downstream of PRMT2. In case of cancer, promotes cell cancer proliferation via activation of the Wnt signaling pathway (PubMed:24589551).

activator of Wnt signaling pathway downstream of PRMT2. In case of cancer, promotes cell cancer proliferation via activation of the Wnt signaling pathway (PubMed:24589551). Overexpression induces metaphase arrest and chromosomal instability. Localizes to active rDNA loci and promotes the expression of rRNA genes (PubMed:21960006). May play a role in cell-cycle regulation during the transition from gamete to embryo. Involved in oocyte meiotic resumption, a process that takes place before ovulation to resume meiosis of oocytes blocked in prophase I: may act by regulating maternal transcripts to control meiotic resumption.[UniProtKB/Swiss-Prot Function]

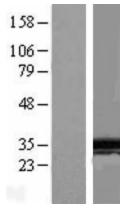
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Product images:



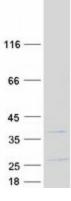
Circular map for RC201938



Western blot validation of overexpression lysate (Cat# [LY416457]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201938 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified SPIN1 protein (Cat# [TP301938]). The protein was produced from HEK293T cells transfected with SPIN1 cDNA clone (Cat# RC201938) using MegaTran 2.0 (Cat# [TT210002]).

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