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Product datasheet for RC215227

Smad Interacting Protein 1 (ZEB2) (NM_014795) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad Interacting Protein 1 (ZEB2) (NM_014795) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smad Interacting Protein 1
Synonyms:	HSPC082; SIP-1; SIP1; SMADIP1; ZFHX1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC215227 representing NM_014795.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGCAGCCGATCATGGCGGATGGCCCCCGGTGCAAGAGGCGCAAACAAGCCAATCCCAGGAGGAAA
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TCCTCCCCACACGTGAGCCAAGCTCTGTTGCCAAGAGAGGAAGAGGAAGATGAAATAAGGGAGGGTGGA
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AATATTCCGCCTGTCGGTCTTCCGGTAGTGAGTCATAATGGTGCCACTAAAAGTATTATTGACTATACG
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Protein Sequence:

>Peptide sequence encoded by RC215227
Blue=ORF Red=Cloning site Green=Tag(s)

MKQPIMADGPRCKRRKQANPRRKNVVNYDNVVDTGSETDEEDKLHIAEDDGIANPLDQETSPASVPNHE
SSPHVSQALLPREEEEDEIREGGVEHPWHNNEILQASVDGPEEMKEDYDTMGPEATIQTAINNGTVKNA
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ELLMNRAYLQSITPQGYSDSEERESMPRDGESEKEHEKEGEDGYGKLGRQDGDEEFEEEEEESENKSMD
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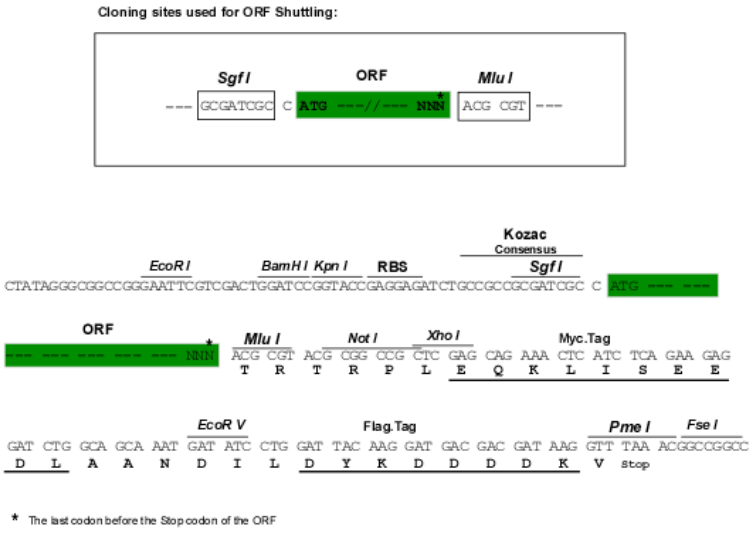
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014795

ORF Size: 3642 bp

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_014795.4
RefSeq Size:	9243 bp
RefSeq ORF:	3645 bp
Locus ID:	9839
UniProt ID:	O60315
Cytogenetics:	2q22.3
Domains:	homeobox, zf-C2H2
Protein Families:	Druggable Genome, Transcription Factors
MW:	136.4 kDa
Gene Summary:	The protein encoded by this gene is a member of the Zfh1 family of 2-handed zinc finger/homeodomain proteins. It is located in the nucleus and functions as a DNA-binding transcriptional repressor that interacts with activated SMADs. Mutations in this gene are associated with Hirschsprung disease/Mowat-Wilson syndrome. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jan 2010]

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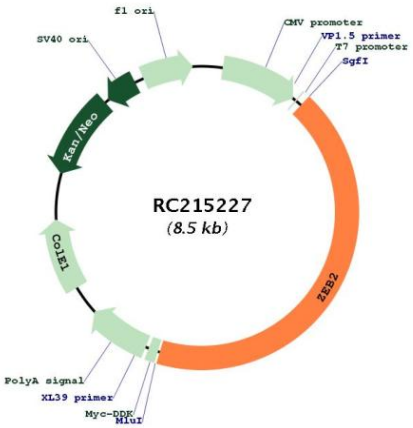
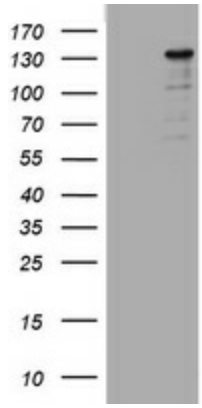
Product images:



Circular map for RC215227



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZEB2 (Cat# RC215227, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ZEB2(Cat# [TA802113]).

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