

Product datasheet for **RC218791**

S2P (MBTPS2) (NM_015884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S2P (MBTPS2) (NM_015884) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	S2P
Synonyms:	BRESEK; IFAP; KFSD; KFSDX; OI19; OLMSX; S2P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Cloning Scheme:

ACCN: NM_015884

ORF Size: 1557 bp

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.

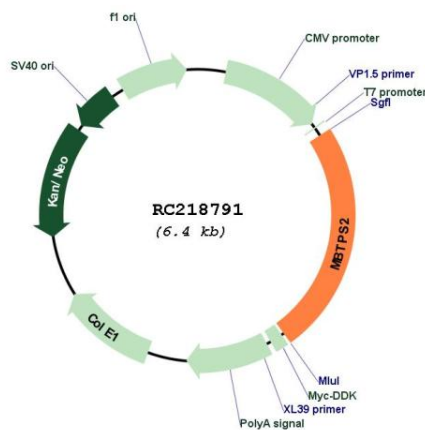
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

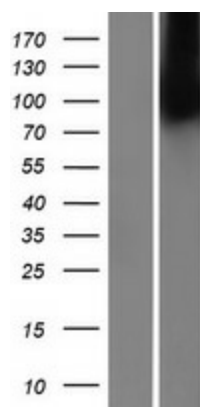
RefSeq: [NM_015884.4](#)

RefSeq Size:	1759 bp
RefSeq ORF:	1560 bp
Locus ID:	51360
UniProt ID:	O43462
Cytogenetics:	Xp22.12
Domains:	Peptidase_M50
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	57.3 kDa
Gene Summary:	This gene encodes a intramembrane zinc metalloprotease, which is essential in development. This protease functions in the signal protein activation involved in sterol control of transcription and the ER stress response. Mutations in this gene have been associated with ichthyosis follicularis with atrichia and photophobia (IFAP syndrome); IFAP syndrome has been quantitatively linked to a reduction in cholesterol homeostasis and ER stress response. [provided by RefSeq, Aug 2009]

Product images:



Circular map for RC218791



Western blot validation of overexpression lysate (Cat# [LY414338]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218791 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).