

Recombinant Human FBXW4, His-tagged

Cat. No. FBXW4-30064TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 65-394 of Human SHFM3 with an N terminal His tag. Predicted mwt: 38 kDa.
Species	Human
Source	E.coli
ProteinLength	65-394 a.a.
Description	This gene is a member of the F-box/WD-40 gene family, which recruit specific target proteins through their WD-40 protein-protein binding domains for ubiquitin mediated degradation. In mouse, a highly similar protein is thought to be responsible for maintaining the apical ectodermal ridge of developing limb buds; disruption of the mouse gene results in the absence of central digits, underdeveloped or absent metacarpal/metatarsal bones and syndactyly. This phenotype is remarkably similar to split hand-split foot malformation in humans, a clinically heterogeneous condition with a variety of modes of transmission. An autosomal recessive form has been mapped to the chromosomal region where this gene is located, and complex rearrangements involving duplications of this gene and others have been associated with the condition. A pseudogene of this locus has been mapped to one of the introns of the BCR gene on chromosome 22.
Conjugation	HIS
Tissue specificity	Expressed in brain, kidney, lung and liver.

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Form	Lyophilised:Reconstitute with 87 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DLLWRRIARASLNSGFTRLGTDLMTSVPVKERVKVSQNWR LGRCREGILLKWRC QMPWMQLEDDSLYISQANFILAY QFRPDGASLNRRPLGVFAGHDEDVCHFVLANS HIVSAG GDGKIGIHKIHSTFTVKYSAHEQEVNVCVDCKGGIIVSG SRDRTAKVWPLAS GRLGQCLHTIQTEDRVWSIAISPLLSSFVTGTACCGHFSPLRIWDLNSGQLMTHLGS DFPPGAGV LDVMYESPFLLSCGYDTYVRYWDLRTSVRKCVMEWEE PHDSTLYC LQTDGNHLLATGSSYYGVVRLWDRRQRACL HAFPLTSTPLSSPVYCLRLTTK
Sequence Similarities	Contains 1 F-box domain.Contains 4 WD repeats.
GENE INFORMATION	
Gene Name	FBXW4 F-box and WD repeat domain containing 4 [Homo sapiens]
Official Symbol	FBXW4
Synonyms	FBXW4; F-box and WD repeat domain containing 4; F box and WD 40 domain protein 4 , SHFM3, split hand/foot malformation (ectrodactyly) type 3; F-box/WD repeat-containing protein 4; dactylin; Fbw4;
Gene ID	6468
mRNA Refseq	NM_022039

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Protein Refseq	NP_071322
MIM	608071
Uniprot ID	P57775
Chromosome Location	10q24
Pathway	Association of TriC/CCT with target proteins during biosynthesis, organism-specific biosystem; Chaperonin-mediated protein folding, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Protein folding, organism-specific biosystem;
Function	molecular_function;

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