Recombinant Human OBFC1, His-tagged

Cat. No. OBFC1-163H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Oligonucleotide/Oligosaccharide-Binding Fold-Containing Protein 1/OBFC1 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Phe368) of Human OBFC1 fused with a His tag at the N-terminus.
Species	Human
Source	E.coli
ProteinLength	1-368 a.a.
Description	CST Complex Subunit STN1 (OBFC1) is a 368 amino acid protein that contains one OB DNA-binding domain. It is a member of the STN1 family. OBFC1 is component of the CST complex, a complex that binds to single-stranded DNA and is required to protect telomeres from DNA degradation. The CST complex binds single-stranded DNA with high affinity in a sequence-independent manner, while isolated subunits bind DNA with low affinity by themselves. In addition to telomere protection, the CST complex has probably a more general role in DNA metabolism at non-telomeric sites.
Form	Supplied as a 0.2 μM filtered solution of 20mM Tris, 1mM DTT, pH 8.0
AA Sequence	MGSSHHHHHHSSGLVPRGSHMQPGSSRCEEETPSLLWGLDPVFLAFAKLYIRDILD MKESRQVPG VFLYNGHPIKQVDVLGTVIGVRERDAFYSYGVDDSTGVINCICWKKL NTESVSAAPSAARELSLT SQLKKLQETIEQKTKIEIGDTIRVRGSIRTYREEREIHATA YYKVDDPVWNIQIARMLELPTIYR KVYDQPFHSSALEKEEALSNPGALDLPSLTSLLS

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	EKAKEFLMENRVQSFYQQELEMVESLLSLAN QPVIHSACSDQVNFKKDTTSKAIHSI FKNAIQLLQEKGLVFQKDDGFDNLYYVTREDKDLHRKIH RIIQQDCQKPNHMEKGC HFLHILACARLSIRPGLSEAVLQQVLELLEDQSDIVSTMEHYYTAF
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Store at Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	OBFC1 oligonucleotide/oligosaccharide-binding fold containing 1 [Homo sapiens]
Official Symbol	OBFC1
Synonyms	OBFC1; oligonucleotide/oligosaccharide-binding fold containing 1; CST complex subunit STN1; bA541N10.2; FLJ22559; alpha accessory factor 44; suppressor of cdc thirteen homolog; replication protein A 32 kDa subunit; oligonucleotide/oligosaccharide-binding fold-containing protein 1; STN1; AAF44; AAF-44; RPA-32; RP11-541N10.2;
Gene ID	79991
mRNA Refseq	NM_024928
Protein Refseq	NP_079204
MIM	613128
UniProt ID	Q9H668

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Chromosome Location	10q25.1
Function	DNA binding; protein binding; single-stranded DNA binding; single-stranded telomeric DNA binding;

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