

## Recombinant Mouse Twist1 Protein, Myc/DDK-tagged

Cat. No. Twist1-6740M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Purified recombinant protein of mouse full-length twist basic helix-loop-helix transcription factor 1 (Twist1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species** Mouse

**Source** HEK293

**Description** Basic helix-loop-helix (bHLH) transcription factors have been implicated in cell lineage determination and differentiation. This gene encodes a bHLH transcription factor that is evolutionarily conserved from invertebrates to humans, and was originally identified in *Drosophila* as an essential gene involved in early mesoderm development and dorsal-ventral patterning in the embryo. This protein plays a role in cancer by regulating the epithelial-mesenchymal transition (EMT), a process that is critical for metastasis initiation, and promoting tumor progression. Mutations in the human gene are associated with Saethre-Chotzen syndrome (SCS). Mice with heterozygous mutations in this gene exhibit cranofacial and structural defects similar to those seen in human SCS patients. [provided by RefSeq, Sep 2015]

**Molecular Mass** 21.6 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	Twist1 twist basic helix-loop-helix transcription factor 1 [ Mus musculus (house mouse) ]
<b>Official Symbol</b>	Twist1
<b>Synonyms</b>	TWIST1; twist homolog 1 (Drosophila); twist-related protein 1; Pluridigite; charlie chaplin; polydactyly EMS; Ska <sup>&lt; sup&gt;</sup> m10Jus <sup>&lt; /sup&gt;</sup> twist gene homolog 1; Pde; pdt; Ska10; Twist; M-Twist; bHLHa38; AA960487; m10Jus <sup>&gt;</sup> MGC103391;
<b>Gene ID</b>	22160
<b>mRNA Refseq</b>	NM_011658
<b>Protein Refseq</b>	NP_035788
<b>UniProt ID</b>	P26687

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