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Product datasheet for SC321467

Twist (TWIST1) (NM_000474) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Twist (TWIST1) (NM_000474) Human Untagged Clone
Tag:	Tag Free
Symbol:	Twist
Synonyms:	ACS3; bHLHa38; BPES2; BPES3; CRS; CRS1; CSO; SCS; SWCOS; TWIST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_000474.3
GAGGTATAAGAGCCTCCAAGTCTGCAGCTCTCGCCCAACTCCCAGACACCTCGCGGGCTC
TGCAGCACCGGCACCGTTTCCAGGAGGCCTGGCGGGGTGTGCGTCCAGCCGTTGGGCGCT
TTCTTTTTGGACCTCGGGGCCATCCACACCGTCCCCTCCCCCTCCCGCCTCCCTCCCCGC
CTCCCCCGCGCGCCCTCCCCGCGGAGGTCCCTCCCGTCCGTCCTCCTGCTCTCTCCTCCG
CGGGCCGCATCGCCCGGGCCGGCGCCGCGCGCGGGGGAAGCTGGCGGGCTGAGGCGCCCC
GCTCTTCTCCTCTGCCCCGGGCCCGCGAGGCCACGCGTCGCCGCTCGAGAGATGATGCAG
GACGTGTCCAGCTCGCCAGTCTCGCCGGCCGACGACAGCCTGAGCAACAGCGAGGAAGAG
CCAGACCGGCAGCAGCCGCCGAGCGGCAAGCGCGGGGGACGCAAGCGGCGCAGCAGCAGG
CGCAGCGCGGGCGGCGGCGCGGGGCCCGGCGGAGCCGCGGGTGGGGGCGTCGGAGGCGGC
GACGAGCCGGGCAGCCCGGCCCAGGGCAAGCGCGGCAAGAAGTCTGCGGGCTGTGGCGGC
GGCGGCGGCGCGGGCGGCGGCGGCGGCAGCAGCAGCGGCGGCGGGAGTCCGCAGTCTTAC
GAGGAGCTGCAGACGCAGCGGGTCATGGCCAACGTGCGGGAGCGCCAGCGCACCCAGTCG
CTGAACGAGGCGTTCGCCGCGCTGCGGAAGATCATCCCCACGCTGCCCTCGGACAAGCTG
AGCAAGATTCAGACCCTCAAGCTGGCGGCCAGGTACATCGACTTCCTCTACCAGGTCCTC
CAGAGCGACGAGCTGGACTCCAAGATGGCAAGCTGCAGCTATGTGGCTCACGAGCGGCTC
AGCTACGCCTTCTCGGTCTGGAGGATGGAGGGGGCCTGGTCCATGTCCGCGTCCCACTAG
CAGGCGGAGCCCCCCACCCCCTCAGCAGGGCCGGAGACCTAGATGTCATTGTTTCCAGAG
AAGGAGAAAATGGACAGTCTAGAGACTCTGGAGCTGGATAACTAAAAATAAAAATATATG
CCAAAGATTTTCTTGGAAATTAGAAGAGCAAAATCCAAATTCAAAGAAACAGGGCGTGGG
GCGCACTTTTAAAAGAGAAAGCGAGACAGGCCCGTGGACAGTGATTCCCAGACGGGCAGC
GGCACCATCCTCACACCTCTGCATTCTGATAGAAGTCTGAACAGTTGTTTGTGTTTTTTT
TTTTTTTTTTTGACGAAGAATGTTTTTATTTTTATTTTTTTCATGCATGCATTCTCAAGA
GGTCGTGCCAATCAGCCACTGAAAGGAAAGGCATCACTATGGACTTTCTCTATTTTAAAA
TGGTAACAATCAGAGGAACTATAAGAACACCTTTAGAAATAAAAATACTGGGATCAAACT
GGCCTGCAAAACCATAGTCAGTTAATTCTTTTTTTCATCCTTCCTCTGAGGGGAAAAACA
AAAAAAAAAAAAAAAA
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Restriction Sites:	Please inquire
ACCN:	NM_000474
Insert Size:	609 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000474.3, NP_000465.1
RefSeq Size:	1669 bp
RefSeq ORF:	609 bp
Locus ID:	7291
UniProt ID:	Q15672
Cytogenetics:	7p21.1
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a basic helix-loop-helix (bHLH) transcription factor that plays an important role in embryonic development. The encoded protein forms both homodimers and heterodimers that bind to DNA E box sequences and regulate the transcription of genes involved in cranial suture closure during skull development. This protein may also regulate neural tube closure, limb development and brown fat metabolism. This gene is hypermethylated and overexpressed in multiple human cancers, and the encoded protein promotes tumor cell invasion and metastasis, as well as metastatic recurrence. Mutations in this gene cause Saethre-Chotzen syndrome in human patients, which is characterized by craniosynostosis, ptosis and hypertelorism. [provided by RefSeq, Jul 2020]