

## Product datasheet for **SC213517**

### Twinkle (TWNK) (NM\_001163814) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Twinkle (TWNK) (NM_001163814) Human 3' UTR Clone
Symbol:	Twinkle
Synonyms:	ATXN8; C10orf2; IOSCA; MTDPS7; PEO; PEO1; PEOA3; PRLT55; SANDO; SCA8; TWINL
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001163814
Insert Size:	1273 bp



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**Insert Sequence:** >SC213517 3'UTR clone of NM\_001163814  
 The sequence shown below is from the reference sequence of NM\_001163814. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TTTGGCTCAGCCAAAGTGAGTGGCCTTTCAGCGGAGCTCAAGCTTTGGAAAATAGAGTGGCAAGCCAGG
AAGCAGACAATGTTCTGATCCTGCAGGACAGGAAGCTGGTAACCGGGCCAGGAAACGGTATCTGCAGG
TGTCCAAGAACCCTTTGATGGAGATGTAGGTGCTTCCCGCTTGAGTTCAACAAGAAGCTCCCTCACCT
TCTCCATTCCACCAAGAACAAGGCCCGCTCAAGAAGATCAAGGATGACACTGGACCAGTGGCCAAAA
AGCCCTCTTCTGGCAAAAAGGGGCTACGACACAGAAGCTGAGATTTGCTCAGGCCAGGCCCCACTC
CCGACCAGCCAGACACCTCCAAGCGTTCAAAGTGAAGGCCGTGCAGAGCTGGTCACTGAAATGAGCCTG
ATAGGATAGGCTGGAGCATAAACTCTGCAAGGGCTCCTCTATCCTGTGGTCTGAGCTGTGTGCCCTT
CTCAGTCTGAGGGCCTAACCTAGAGCAGTTTTCCATAGTGAGAAAATTCATGTAGCAGACTACTGAG
AACTACTGTGTGCTCAGGCTTTGTTTGGAGTCTGTATATACAGCACTGAAAAGAGAGATAAAGTCC
CTGCCTGCATGCATTCTGGCGGAAGAGACAAGCAAGCAATGAACAAATTAGCAGAAAACCTAGTTTTAG
TGAAAAATGCTGTAAAGAAAATAGAAAATGCGATAGAGTGTGCGCAGGCTAGTGTAGATAAGTGGTCTGA
AAAGGTGTCTCTGAGCCGAGGCCATGTGAGCTGGGGCCTAAACAAGTGAAGGAGAGAGCCACGTGAAC
ATCCGCGAAGGGGACCCAGGCAGAGAGAAAAGAAAATCCAAGCCCTGAGGTAGGAATGAGCAGGTGAG
ATCAAGCAGTGAAGTCAAGCCGATGAACCTGGAGGGGAATCGGGGACTTCATGCCAACTCCAGCC
TAGGCTTTCAAAGTCAAAGGGTGATACAGTGGGTACCAAGCTCCTCTGCTCCCACTTTGTAGAGCCTA
GCATGAGGTGGCATGACTAGAATTGGATCCTAGGTGCTTAGCCCTGCAATATCAGGGCCTCACTGGTG
GGAGTGCCTCGGCTGGGTTGCTTGGTATAGAGCCATAGAAGGAAGCTGTGAGCCCGGAGTGCCTGC
CACCTAGACACTGATGCCATTGTGTGCTGCCTCAAGACTGCTGGAGTCAGGACATTTTATAGAGCCTTT
TCCAGTTTACTAAAAATTTTTCCATTGCC
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** Sgfl-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001163814.2](#)

**Summary:** This gene encodes a hexameric DNA helicase which unwinds short stretches of double-stranded DNA in the 5' to 3' direction and, along with mitochondrial single-stranded DNA binding protein and mtDNA polymerase gamma, is thought to play a key role in mtDNA replication. The protein localizes to the mitochondrial matrix and mitochondrial nucleoids. Mutations in this gene cause infantile onset spinocerebellar ataxia (IOSCA) and progressive external ophthalmoplegia (PEO) and are also associated with several mitochondrial depletion syndromes. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Aug 2009]

Locus ID: 56652

MW: 46.5