

Product datasheet for **SC304461**

SIX homeobox 4 (SIX4) (NM_017420) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIX homeobox 4 (SIX4) (NM_017420) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIX homeobox 4
Synonyms:	AREC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC304461 representing NM_017420.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCCTCTTCTCCCCACCGGGCAGATCGCAAGTGCGGCGGACATCAAGCAAGAGAATGGGATGGAA
AGCGCCTCGGAAGGGCAGGAGGGCACCAGAGAAGTGCGGGGGGGCGGGCGGTAGGGCTGAGCCCCCG
GCTCCAGCCCCCTTTCCCTGGAGCCGGGGACGCCGACCGCTGCCGCCAGGGTGAGCGGAGAGGAA
GGGGCAGTGCGGCGGGCGGGCGGAGCGGCGGATCAGGTACAACCTCCACTCGGAACCTTCTGGGC
AGGCACCACCACGCCGCCGCCGCCGCGCAGACCCCGCTGGCCTTCTCGCCCAGCACGTGCGCTGC
GTGTGCGAGGCACTGCAGCAGGGGGCAACCTGGACCGCTGGCCGGTTCTGTGGTCCCTGCCCCAG
AGCGACCTGCTACGTGGCAACGAGAGCCTGCTGAAGGCGCGGGCGCTCGTGGCCTTCCACCAGGGC
TACCCCGAGCTCTACAGCATCTCGAGAGCCACAGCTTCGAGTCGGCCAACCACCCGCTGCTGCAGC
CTCTGGTACAAGGCGGCTACACCGAGGCCGAGCAGCCCGGGCGGCCGCTGGGAGCCGTAGACAAG
TACCGGCTGCGCAGGAAATCCCTGCCCGCACCATCTGGGACGGCGAGGAGACGGTGTATTGTTTC
AAGGAGAAGTCGCAACGCGCTCAAGGAGCTCTACAAGCAGAATCGCTACCCCTCGCCCCCGGAGAAG
CGGCACCTGGCCAAGATCACCGGCTCTCCCTACCCAGGTCAGCAACTGGTTCAAGAACCGCCGGCAG
CGCGACAGGAACCCCTCCGAGACCCAGTCCAAAAGTGAGTCAGATGGCAACCCAGCACTGAAGATGAA
TCCAGCAAGGGACATGAGGATTTATCTCCTCACCCACTCTCCAGTTATCTGATGGCATCACCAACCTC
AGCCTTCCAGTCATATGGAGCCAGTATATGCAACAAATGGAAATGCTAAGATATCATTAAAGCTCT
TCTGGAGTTCTGTTGAATGGAAGCTTGGTACCTGCAAGTACTTCCCTGTCTTCCCTAATGGAAATCT
TTTATTCAGGGACCCAGTGGAGTTATCCTAATGGATTAATGTGGAAATACACAGGCAGTGGCATTG
AACCCACAAAAATGTCATCAAACTTGTGAGCAATGGTATATCCATGACTGACATACTGGGGTCTACT
TCCCAGGACGTGAAGGAATCAAAGTCCAGAGTTCTGCTAACTCAGCAACCACACGCTCTACAGC
CCCAGTGTCCCTGTCTCATTCCAGGCTGATACCCAGCACTGAGGTGAAAAGAGAAGGCATTCAAACA
GTGGCTTCCCAAGATGGAGGGTCTGTAGTGACTTTTACTACACCAGTGCAAAATTAACAGTATGGCATT
GTCCAGATCCCAATCCGGAGCAACAGCCAGTTCCTAATGGGAGCATTGGATTCTCTCCACTGCAG
CTGCCCTGTGTGAGTGGCAGTTCACAAGGTAATATCTCAGTAAGCTCAAGCACTTCCAGTGGAAAGC
ACATTTACAAGTGAAGTCTACCACAGTCCAGCAAGGAAAGGTTTTCTTGTGCTCTCTTGTCCCAGTGA
GTGGTATACACGGTTCCTAATACAGGCCAGACTATAGGATCTGTGAAACAGGAAGGCTTGGAAAGGAGC
CTGGTATTTCTCAGTTGATGCCTGTCAATCAGAAATGCACAAGTAAATGCAAACCTGTCTTCTGAAAC
ATCTCGGGGAGTGGCCTGCATCCACTGGCCTCCTCATTAGTTAATGTATCTCCAACCTCACATTTTCT
CTCAGTCCCTCTACACTACTAAATCCCAGTAAACCGCGACATTGCCGATAGCCAACCAATGTCT
GCACCGGTGGCAAGCAAATCTACTGTGACATCTGTGAGCAACACTAACTATGCAACTCTTCCAGACTGC
TCCCTTATTACTGGTCAAGACCTATTGTGAGTCCCTATGACTCAGGCTGCCCTTGGGGAAATAGTTCT
ACAGCTGAAGATCAGGTAGGTACCCCTCCCAGCAGTACATCAGGATTTTGTCCAAGAACATCGTTTG
GTTCTGCAATCGGTAGCTAACATGAAAGAGAATTTCTTATCAAATCTGAGAGCAAAGCAACAAGTAGC
TTAATGATGCTGGACTCTAAATCCAAGTATGTCTTAGATGGCATGGTTGATACTGTCTGTGAAGACCTG
GAAACAGACAAAAAGAGCTTGCCAAGCTCCAGACTGTCCAGCTGGATGAAGATATGCAAGACTTATGA

```

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites: SgfI-MluI
ACCN: NM_017420
Insert Size: 2346 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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:	<ol style="list-style-type: none"> 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_017420.4
RefSeq Size:	6277 bp
RefSeq ORF:	2346 bp
Locus ID:	51804
UniProt ID:	Q9UIU6
Cytogenetics:	14q23.1
MW:	82.9 kDa
Gene Summary:	This gene encodes a member of the homeobox family, subfamily SIX. The drosophila homolog is a nuclear homeoprotein required for eye development. Studies in mouse show that this gene product functions as a transcription factor, and may have a role in the differentiation or maturation of neuronal cells. [provided by RefSeq, May 2010]