

## Product datasheet for **RG203465**

### SIX1 (NM\_005982) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SIX1 (NM\_005982) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SIX1  
**Synonyms:** BOS3; DFNA23; TIP39  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203465 representing NM\_005982  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGATGCTGCCGTCGTTTGGCTTTACGCAGGAGCAAGTGGCGTGCCTGTGCGAGTTCTGCAGCAAG  
GCGGAAACCTGGAGCGCCTGGGCAGTTCTGTGGTCACTGCCCGCCTGCGACCACCTGCACAAGAACGA  
GAGCGTACTCAAGGCCAAGGCGGTGGTCGCCTTCCACCGCGCAACTCCGTGAGCTCTACAAGATCCTG  
GAGAGCCACCAGTTCTCGCTCACAAACCACCCAAACTGCAGCAACTGTGGCTGAAGGCCGATTACGTGG  
AGGCCGAGAAGCTGTGCGGCCGACCCCTGGGCGCGTGGGCAAAATATCGGGTGCGCCGAAAATTTCCACT  
GCCCGCACCATCTGGGACGGCGAGGAGACCAGCTACTGCTTCAAGGAGAAGTCGAGGGGTGCTCCTGCGG  
GAGTGGTACGCGCACAATCCCTACCCATCGCCGCTGAGAAGCGGGAGCTGGCCGAGGCCACCGGCTCA  
CCACCACCAGGTCAGCAACTGGTTTAAGAACCGAGGCAAGAGACCGGGCCGCGGAGGCCAAGGAAAAG  
GGAGAACACCGAAAACAATAACTCCTCCTCCAACAAGCAGAACCAACTCTCCTCTGGAAGGGGCAAG  
CCGCTCATGTCCAGCTCAGAAGAGGAATTCTCACCTCCCCAAAGTCCAGACCAGAACTCGGTCTTCTGC  
TGCAGGGCAATATGGGCCACGCCAGGAGCTCAAATTTCTCCTCCCGGGTTAACAGCCTCGCAGCCAG  
TCACGGCTGCAGACCCACCAGCATCAGCTCCAAGACTCTGTCTCGGCCCTCACCTCCAGTCTGGTG  
GACTTGGGTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203465 representing NM\_005982  
 Red=Cloning site Green=Tags(s)

MSMLPSFGFTQEQVACVCEVLQQGGNLERLGRFLWSPACDHLHKNESVLKAKAVVAFHRGNFRELKIL  
 ESHQFSPHNHPKLQQLWLKAHYVEAEKLCGRPLGAVGKYRVRKFPPLRTIWDGEETSYCFKEKSRGVLRL  
 EWYAHNPYPSPREKRELAEATGLTTTQVSNWFKNRRQRDRAAEAKEKRENTENNSSSNKQNLSPLEGGK  
 PLMSSSEEEFSPPOSPDQNSVLLQLQGNMGHARSSNYSLPGLTASQPSHGLQTHQHQLQDSSLGPLTSSLV  
 DLGS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005982

**ORF Size:** 852 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_005982.1](#), [NP\\_005973.1](#)

**RefSeq Size:** 1378 bp

**RefSeq ORF:** 855 bp

**Locus ID:** 6495

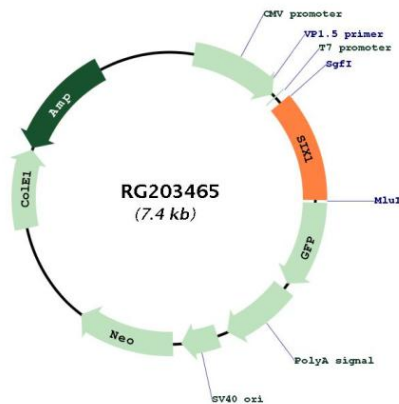
**UniProt ID:** [Q15475](#)

**Cytogenetics:** 14q23.1

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene is a homeobox protein that is similar to the Drosophila 'sine oculis' gene product. This gene is found in a cluster of related genes on chromosome 14 and is thought to be involved in limb development. Defects in this gene are a cause of autosomal dominant deafness type 23 (DFNA23) and branchiootoc syndrome type 3 (BOS3). [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG203465