

Product datasheet for **RG216286**

SIX3 (NM_005413) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SIX3 (NM_005413) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SIX3
Synonyms: HPE2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216286 representing NM_005413
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTATTCGGCTCCCCCTAGACCTCTATTCTCCCACTTCTTGTGGCCAACTTCGCCGATTCTCACC
ACCGCTCCATACTTCTGGCGAGTAGCGGCGGCCGGAACGGTGCAGGAGGCGGCGGCCGGGAGGCGG
CAGCGGCGGCCGGAACGGTGCAGGAGGCGGCGGTGCTGGCGGAGCAGGCGGCGGCCGGCGGCTCC
AGGGCCCCCGAAGAGTTGTCCATGTTCCAGCTGCCACCCTCAACTTCTCGCCGAGCAGGTGGCCA
GCGTCTGTGAGACGCTGGAGGAGACGGGCGACATCGAGCGGCTGGGCCGTTCTCTGGTCGCTGCCGT
GGCCCCGGGGCGTGCAGGCCATCAACAACACGAGTCGATCCTGCGCGCGCGCCGTTGGTCGCCCTT
CACACGGCAACTTCCGCGACCTTACCACATCCTTGAGAACCACAAGTTCACCAAGGAGTCTCACGGCA
AGCTGCAGGCCATGTGGCTCGAGGCGCACTACCAGGAGGCGGAGAAGCTGCGCGGCCGCCACTCGGCC
GGTGGACAAGTACCGCGTGCGAAGAAGTTCGCGTGCACGCACCATCTGGGACGGCGAGCAGAAGACG
CATTGCTTCAAGGAGCGGACTCGGAGCCTGTTGCGGGAGTGGTACCTACAGGACCCTACCCCAACCCCA
GCAAGAACCGCAACTGGCGCAGGCCACCGCCTCACTCCACACAAGTAGGCAACTGGTTAAGAACC
GCGGACGCGGACCGCGCGCGGCCGCAAGAACAGGCTCCAGCACCAGGCCATTGGACCGAGCGGCATG
CGCTCGCTGGCCGAGCCCGGCTGCCACGCACGGCTCGGCAGAGTCGCCGTCCAGCGGCCAGCCCGA
CCACCAGCGTGTCCAGCCTGACGGAGCGCGGACACCGGCACCTCCATCCTCTCGGTAACCTCCAGCGA
CTCGGAATGTGATGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



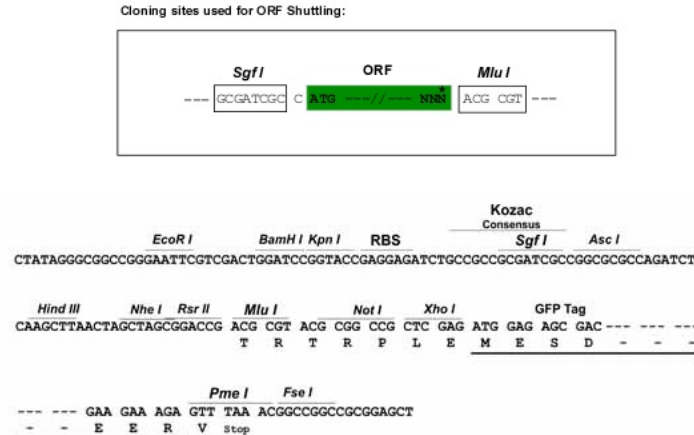
Protein Sequence: >RG216286 representing NM_005413
Red=Cloning site Green=Tags(s)

MVFRSPLDLYSSHFLLPNFADSHHRSILLASSGGGNGAGGGGGAGGGGGAGGGGGAGGGGGAGGGGGGGGS
 RAPPEELSMFQLPTLNF SPEQVASVCETLEETGDIERLGRFLWSLPVAPGACEAINKHESILRARAVVAF
 HTGNFRDLYHILENHKFKESHGK LQAMWLEAHYQEAELRGRPLGPVDKYRVRKKFPLPRTIWDGEQKT
 HCFKERTRSLLEWYLQDPYPNPSKKRELAQATGLTPTQVGNWFKNRRQRDRAAAAKNRLQHQAIGPSGM
 RSLAEPGCPHGS AESPSTAASPTTSVSSLTERADTGT SILSVTSSDSECDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005413

ORF Size: 996 bp

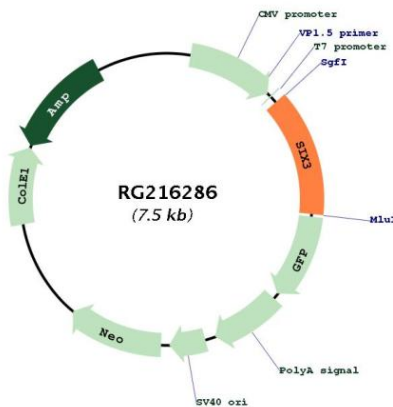
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_005413.1 , NP_005404.1
RefSeq Size:	1926 bp
RefSeq ORF:	999 bp
Locus ID:	6496
UniProt ID:	O95343
Cytogenetics:	2p21
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the sine oculis homeobox transcription factor family. The encoded protein plays a role in eye development. Mutations in this gene have been associated with holoprosencephaly type 2. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG216286