

Product datasheet for RG218605

SHOX (NM_000451) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | SHOX (NM_000451) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | SHOX |
| Synonyms: | GCFX; PHOG; SHOXY; SS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | <pre>>RG218605 representing NM_000451 Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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| | SHOX (NM_000451) Human Tagged ORF Clone – RG218605 |
|---------------------------|--|
| Protein Sequence | <pre>>RG218605 representing NM_000451 Red=Cloning site Green=Tags(s)</pre> |
| | MEELTAFVSKSFDQKSKDGNGGGGGGGGKKDSITYREVLESGLARSRELGTSDSSLQDITEGGGHCPVHL FKDHVDNDKEKLKEFGTARVAEGIYECKEKREDVKSEDEDGQTKLKQRRSRTNFTLEQLNELERLFDETH YPDAFMREELSQRLGLSEARVQVWFQNRRAKCRKQENQMHKGVILGTANHLDACRVAPYVNMGALRMPFQ QVQAQLQLEGVAHAHPHLHPHLAAHAPYLMFPPPPFGLPIASLAESASAAAVVAAAAKSNSKNSSIADLR LKARKHAEALGL |
| | TRTRPLE - GFP Tag - V |
| Restriction Sites: | Sgfl-Mlul |
| Cloning Scheme: | Cloning sites used for ORF Shuttling: Sgf1 ORF Miu I GCGATCGC C ATG NTRY ACG CGT |
| | Kozac Consensus EcoR I BamH I Kpn I RBS Sgf I Asc I CTATAGGGCGGCCGGGAATTCGTCGGACCGGACCGGACC |

| | | | | | P | me I | Fse I |
|---|---|-----|-----|-----|-----|------|--------------------|
| | | GAA | GAA | AGA | GTT | TAA | ACGGCCGGCCGCGGAGCT |
| - | - | E | E | R | v | Stop | |

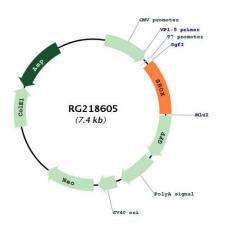
| ACCN: ORF Size: | NM_000451 876 bp |
|--------------------|---|
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. 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. <u>More info</u> |
| 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). |

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| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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. |
|------------------------|--|
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM 000451.3, NP 000442.1</u> |
| RefSeq Size: | 4559 bp |
| RefSeq ORF: | 879 bp |
| Locus ID: | 6473 |
| UniProt ID: | <u>O15266</u> |
| Cytogenetics: | X;Y |
| Domains: | homeobox, OAR |
| Protein Families: | Transcription Factors |
| Gene Summary: | This gene belongs to the paired homeobox family and is located in the pseudoautosomal region 1 (PAR1) of X and Y chromosomes. Defects in this gene are associated with idiopathic growth retardation and in the short stature phenotype of Turner syndrome patients. This gene is highly conserved across species from mammals to fish to flies. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RG218605

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