

Product datasheet for **RG206025**

ZHX1 (NM_007222) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZHX1 (NM_007222) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZHX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206025 representing NM_007222
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGCAGGGCAAAATCAACAACACCTTGCATGGTCCTTGCCAGTGAACAAGATCCAGACCTTGAGT
 TGATATCAGATTTGGATGAAGGTCTCCTGTGCTTACACCTGTAGAAAACACCAGAGCAGAGAGTATCTC
 AAGTGATGAAGAGGTTTCATGAATCTGTGGATTCAGACAATCAGCAAAAATAAAAAAGTTGAAGGTGGATAT
 GAATGTAATATTGTAATTTTCAAACCTCCAGATCTAAATATGTTTACTTTTCATGTGGATTCGGAACATC
 CCAATGTAGTGCTAAATTCATCTATGTTTGTGTCGAATGCAATTTTCTTACAAAAGGTATGATGCACT
 TTCTGAGCATAATCTGAAATATCACCCAGGAGAAGAGAATTTAAGTTGACTATGGTGAACGTAATAAC
 CAGACAATCTTTGAACAAACAATAAATGATCTGACTTTTGATGGTAGTTTGTAAAGAGGAGAATGCAG
 AGCAAGCAGAATCTACAGAAGTTTCTTCTCGGAATATCTATCAGTAAAACCTCATCATGAAAATGAT
 GAAAAATAAAGTGAAAAATAACGGATTGCAGTTCATCATAACTCAGTTGAGGACGTTCCCTGAAGAGAAA
 GAGAATGAAATCAAACAGACCGTGAAGAAATGTAGAAAATCCAAGTCTTCAGCTTCTGAATCTAATA
 CAAGTACTTCCATTGTAACAGAATACATCCAAGTACTGCCAGCACGGTAGTGACACCAGCAGCAGTTCT
 TCCTGGATTGGCAGAGATGATAACTGCTGTATCTGCTCAGCAGAAATCTAATTTGATTCCCAAAGCTTA
 ATCCCTGTTAATAGCATTCCACCTACAATGCTGCATTGGATAACAATCCCTTTTACTTAAACCTTACA
 ACAAGTCCCTTACCAACAATGTCAGAAATACAGTTCTTTCTGCTCAAGCAAAATATACAGAGGAACA
 GATCAAGATATGGTTTTAGCCCAACGTTTAAACATGGTGTAGTTGGACTCCCGAGGAAGTAGAGGAG
 GCAAGAGGAAACAATCAATGGAACAGTGCATACTGTACCTCAGACCATAACTGTTATTCCTACACACA
 TTTCCACAGGGAGTAATGGTTTACCATCTATTTTACAGACATGCCAAATAGTTGGTCAGCTGGTCTGGT
 CCTTACTCAAGTGGCTGGAACAAACACCTTGCCAGTTACAGCACCTATAGCCTTGACAGTGGCAGCGGTT
 CCAAGTCAAAATAATATACAGAAAAGTCAGGTACCTGCTGCTCAGCCTACTGCAGAAAACAAAGCCAGCAA
 CAGCAGCAGTTCCAATTCTCAAAGTGTCAAACATGAAACTGCATTGGTAAACCTGATTCAATTTGGCAT
 TCGGGCAAAAAGACAAAAGAGCAACTGGCAGAAATTAAGGTTAGCTACCTTAAAAATCAGTTTCCCAT
 GATTTCAGAAATATCAGACTTATGAAAATAACAGGCCTGACGAAAGGAGAGATTAATAATGGTTTAGTG
 ACACAAGGTACAACCAGAGAAATCAAAGAGTAATCAGTGCTTACATCTCAACAATGATTCCTCTACCAC
 CATTATTATAGACTCCAGTGATGAAACCACGGAATCCCAACTGTTGGTACTGCACAGCCTAAGCAATCC
 TGGAAATCCTTTTCTGACTTTACTCCCCAAAAGTTTAAAGAGAAAACGCAGAGCAGCTTCGTGTCCTTC
 AGGCAAGTTTTCTCAACAGCTCTGTACTTACAGATGAAGAATTAATAGGTTAAGGGCACAAACCAAAC
 TACCAGAAGAGAAATCGATGCTTGGTTTACAGAGAAGAAGAAATCAAAGCTTTAAAGGAAGAGAAAATG
 GAAATAGATGAAAGTAATGCAGGTAGTTCCAAAGAAGAAGCTGGAGAAACTTCTCCTGCAGATGAATCTG
 GTGCACCTAAGTCAGGGAGTACAGGCAAGATATGTAACAAAACACCTGAGCAGCTGCACATGCTTAAAG
 TGCATTTGTCCGGACACAGTGGCCATCACCAGAAGAGTATGACAAGTTGGCCAAAGAAAGCGGGCTTGT
 AGAACAGACATAGTTAGTTGGTTTGGGGACACCCGTTATGCTTGGAAAGATGAAACTTGAATGGTACT
 ACTACTATCAGAGCGCAATTCAAGTAGTATGAATGGTCTGTCTCCCTTAGGAAAAGAGGGAGAGGGAG
 ACCCAAAGGACGGGAAGAGGAAGACCGGCTGGGCGCCTAGAGGAAGCAAAAAGAAATTAACAACCTGGGAC
 AGGGGACCATCACTCATAAAATTTAAACTGGAAGTGAATACTTAAGGATTATTACCTGAAGCGCAAGT
 TTCTTAATGAGCAAGACCTTGATGAACTTGTTAACAATCACATATGGGCTATGAGCAGGTGAGAGAGTG
 GTTTGCAGAAAGACAGAGAAGATCAGAATTAGGTATAGAATTTTGGAGAAAATGAGGAGGAAGATGAA
 GTTATTGATGACCAGGAAGAGGATGAAGAAGAAACAGATGATAGTACACTTGGGAACCTCCACGACATG
 TGAACCGGAAGCTGTCTAAATCAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206025 representing NM_007222
Red=Cloning site Green=Tags(s)

MASRRKSTTPCMVLASEQDPDLELISDLDEGPPVLTVENTRAESISSDEEVHESVSDSNQNKKEGGY
ECKYCTFQTPDLNMFTHVDSEHPNVVLNSSYVCVECNFLTKRYDALSEHNLKYHPGEENFKLTMVKRNN
QTIFEQTINDLTFDGSFVKEENAEQAESTEVSSTSGISISKTPIMKMMKNKVENKRIAVHHNSVEDVPEEK
ENEIKPDREEIIVENPSSSASESNTSTSIVNRIHPSTASTVVTPAAVLPGLAQMITAVSAQQNSNLIPKVL
IPVNSIPTYNAAALDNNPLLLNTYNKFPYPTMSEITVLSAQAKYTEEQIKIWFSAQRLKHGVSWTPEEVEE
ARRKQFNGTVHTVPQTITVIPTHTISTGSNGLPSILQTCQIVGQPGLVLTQVAGTNTLPVTAPIALTVAGV
PSQNNIQKSQVPAQAQPTAETKPATAAVPTSQSVKHETALVNPDSFGIRAKKTKEQLAELKVSYLKNQFPH
DSEIIRLMKITGLTKGEIKKWFSDTRYNQNRNSKNQCLHLNNDSTTIIIDSSDETTEPTVGTAPKQS
WNPFPDFTPQKFEKTAEQLRVLQASFLNSSLTDEELNRLRAQTKLTRREIDAWFTEKKKSKALKEEKM
EIDESNAGSSKEEAGETSPADES GAPKSGSTGKICKKTPEQLHMLKSAFVRTQWPSPEEYDKLAKESGLA
RTDIVSWFGDTRYAWKNGNLKYYYYQSANSSSMNGLSSLRKRGRGRPKGRGRGRPRGRPRGSKRINND
RGPSLIKFKTGTAIILKDYLLKRFLEQDLDELVNKSHMGYEQVREWF AERQRRELGIELFEENEEDE
VIDDQEEDEEETDDSDTWEPPRHVKRKLKSKSDD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

ACCN:	NM_007222
ORF Size:	2619 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_007222.2
RefSeq Size:	4937 bp
RefSeq ORF:	2622 bp
Locus ID:	11244
UniProt ID:	Q9UKY1
Cytogenetics:	8q24.13
Domains:	homeobox, zf-C2H2
Protein Families:	Transcription Factors
Gene Summary:	The members of the zinc fingers and homeoboxes gene family are nuclear homodimeric transcriptional repressors that interact with the A subunit of nuclear factor-Y (NF-YA) and contain two C2H2-type zinc fingers and five homeobox DNA-binding domains. This gene encodes member 1 of this gene family. In addition to forming homodimers, this protein heterodimerizes with members 2 and 3 of the zinc fingers and homeoboxes family. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the downstream chromosome 8 open reading frame 76 (C8orf76) gene. [provided by RefSeq, Feb 2011]