

Product datasheet for **RG230672**

Smad Interacting Protein 1 (ZEB2) (NM_001171653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad Interacting Protein 1 (ZEB2) (NM_001171653) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZEB2
Synonyms:	HSPC082; SIP-1; SIP1; SMADIP1; ZFH1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230672 representing NM_001171653 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCAGCCGATCATGGCGGATGGCCCCGGTGAAGAGGGCGCAAACAAGCCAATCCCAGGAGGAAAA
ACGTGGTGAAGTATGACAATGTAGTGGACACAGGTTCTGAAACAGATGAGGAAGACAAGCTTCATATTGC
TGAGGATGACGGTATTGCCAACCTCTGGACCAGGAGACGAGTCCAGCTAGTGTGCCAACCATGAGTCC
TCCCCACAGTGAGCCAAGCTCTGTTGCCAAGAGAGGAAGAGGAAGATGAAATAAGGGAGGGTGGAGTGG
AACACCCCTGGCACAACAACGAGATTCTACAAGCCTCTGTAGATGGTCCAGTGAAGAATGCAAATTCAC
ATCAGATTTTGGGAATACTTTGCCAAAAGAAAAGTGGAGGAACGCGATGGTCATGCAGTCAGCATCGAG
GAGTACCTTCAGCGCAGTGACACAGCCATTATTTACCCAGAAGCCCTGAGGAGCTGTCTCGCCTTGGCA
CGCCAGAGGCCAATGGGCAAGAAGAAAAATGACCTGCCACCTGGAATCCAGATGCTTTTGGCCAAGTCT
GACCTGCCCTACTGCGACCGGGGCTACAAGCGCTTGACATCACTGAAGGAGCAGCATCAAGTACCGCCAC
GAGAAGAATGAAGAGAACTTTTCTGCCCTCTCTGTAGCTACACGTTTGCCTACCGCACCCAGCTCGAGC
GGCATAAGTGGTACACACAAGCCAGGACAGATCAGCACCAATGCTAACCAAGGAGCAGGTAATCGCAA
GTTCAAATGCACAGAGTGTGGCAAGGCCTTCAAATATAAACACCATCTGAAAGAACAACCTGCGAATTCAC
AGTGGTGAAAAACCTTACGAGTGCCCAAACTGCAAGAAAGTTTCTCCATTCTGGTTCCTACAGTTCGC
ACATCAGCAGCAAGAAATGTATTGGTTAATCTCTGTAATGGCCGAATGAGAAACAATATCAAGACGGG
TTCTTCCCTAATTCTGTTTCTTCTCTCTACTAATTACGCCATTACCCAGTTAAGAAACAAGTTGGAG
AATGGAAAACCACTTAGTATGTCTGAACAGACAGGCTTACTTAAAATAAAACAGAACCACTAGACTTCA
ATGACTATAAAGTTCTTATGGCTACACACGGGTTTAGTGGCACTAGTCCCTTTATGAATGGTGGGCTTGG
AGCCACCAGCCCTTAGGAGTTCATCCATCTGCTCAGAGTCCAATGCAGCACTTAGGTGTAGGGATGGAA
GCCCTTACTTGGGTTTCCACCATGAATAGTAATTTAAGTGAAGTACAAAAGTTTCTACAGATTGTGG
ACAATACTGTTTCCAGGCAAAAAATGGACTGCAAGGCTGAAGAAATTTCAAAGTTGAAAGTTATCATAT
GAAGATCCATGCTCTCAACCTGAGGAACAAGGAGTACTTCTCCTAATATTCGCCCTGTGGTCTTCCG



[View online »](#)

GTAGTGAGTCATAATGGTGCCACTAAAAGTATTATTGACTATACGTTGGAAAAAGTCAATGAAGCCAAAG
CTTGCCTCCAGAGCTTGACTACTGACTCAAGGAGACAGATCAGTAATATAAAGAAAAGAGAAGCTACGTAC
TTAATAGATTTGGTCACTGATGACAAAATGATTGAGAACCACAACATATCCACTCCATTTTCATGCCAG
TTCTGTAAGAAAAGTTTTCTGGCCCCATCCCTTTGCATCAGCATGAACGTTACCTTTGTAAGATGAATG
AAGAGATCAAGGCGGTCTGCAGCCTCATGAAAACATAGTCCCAACAAGCCGGAGTTTTTGTGATAA
TAAAGCCCTCCTCTTGTATCTGTACTTTCTGAGAAAGGAATGACAAGCCCCATCAACCCATACAAGGAC
CACATGTCTGTACTCAAAGCATACTATGCTATGAACATGGAGCCCAACTCCGATGAACTGCTGAAAATTT
CCATTGCTGTGGCCTTCTCAGGAATTTGTGAAGGAATGGTTTGAACAACGAAAAGTCTACCAAGTACTC
AAATCCAGGTCCCCATCCCTGGAAAGAAGCTCCAAGCGTTAGCTCCCAACAGTAACCCCTCCACAAAA
GACTCTTTATTACCCAGGTCTCCTGTAAAACCTATGGACTCCATAACATCACCATCTATAGCAGAACTCC
ACAACAGTGTTACGAATTGTGATCCTCCTCAGGCTAACAAAACCTTCCATTTTACCAATATTAACC
AGTTGAAAAATTGGACCACTCCAGGAGTAATACTCCTTCTCCCTTAAATCTTCTCCACATCTTCTAAA
AACTCCACAGTAGTTCATACACTCCAACAGCTTCTTCTGAGGAGCTCCAGGCTGAGCCTTTAGACT
TGTCATTACAAAACAAATGAAAGAACCCAAAAGTATTATAGCCACAAAGAACAAAACAAAAGCTAGTAG
CATCAGTTTAGATCATAACAGTGTTCCTCCTCATCTGAAAACCTCAGATGAGCCTCTGAACTTGACTTTT
ATCAAGAAGGAATTTTCAAATTCAAATAATCTGGACAACAAAAGCACTAACCCAGTGTTCCAGCATGAACC
CATTTAGTGCCAAACCTTTATACACAGCTCTTCCACCTCAAAGCGCATTTCCCCCTGCTACTTTTCATGCC
ACCAGTCCAGACCAGTATTCTGGGCTACGACCATACCCAGGACTGGATCAGATGAGCTTCTACCATAT
ATGGCCTACACCTACCCAAGTGGAGCAGCTACTTTTGTGATATGCAGCAAGGAGAAAGTACCAGCGGA
ACAAGGATTTTCAAGGAGAAATGCTTGTGAGCACAAGACTACATGTCAGGCCTAGATGATATGACAGA
CTCCGACTCCTGTCTGTCTCGCAAAAAGATCAAGAAGACAGAGAGTGGCATGTATGCATGTGACTTATGT
GACAAGACATTCAGAAAAGCAGTTCCTTCTGCGACATAAATACGAACACACAGGAAAAAGACCACATC
AGTGTGAGATTTGTAAGAAAAGCGTTTAAACACAAGCACCACTTATCGAGCACTCAAGGCTTCACTCGGG
CGAGAAGCCCTATCAGTGTGATAAATGTGGCAAGCGCTTCTCACACTCGGGCTCGTACTCGCAGCACATG
AATCACAGGTATTCTACTGCAAGCGGGAGGCGGAGGAGCGGAAGCGGCGGAGCGGAGGCGCGGAGA
AAGGGCACTTGGAACCCACCGAGCTGCTGATGAACCGGGCTTACTTGCAGAGCATTACCCCTCAGGGGTA
CTCTGACTCGGAGGAGAGGGAGAGTATGCCGAGGGATGGCGAGAGCGAGAAGGAGCACGAGAAAAGAGGC
GAGGATGGCTACGGGAAGCTGGGCAGACAGGATGGCGACGAGGAGTTCGAGGAGGAAGAGGAAGAAAGTG
AAAATAAAAGTATGGATACGGATCCCGAAACGATACGAGATGAAGAAGAGACTGGAGATCACTCCATGGA
CGATAGTTCGGAGGATGGAAAAATGAAACCAATCAGACCACGAGGAAGACAATATGGAAGATGGCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230672 representing NM_001171653
 Red=Cloning site Green=Tags(s)

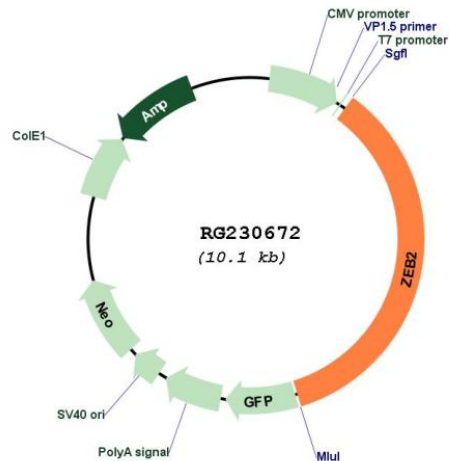
MKQPIMADGPRCKRRKQANPRRKNVVNYDENVVDTGSETDEEDKLHIAEDDGIANPLDQETSPASVPNHES
 SPHVSQALLPREEEDEIREGGVEHPWHNNEILQASVDGPVKNANCTSDFEYF AKRKL EERDGHAVSIE
 EYLQRSDTAIIYPEAPEEL SRLGTPEANGQEENDLPPGTPDAFAQLLTCPYCDRGYKRL TSLKEHIKYRH
 EKNEENFSCPLCSYTFAYRTQLERHMVTHKPGTDQHMLTQGAGNRKFKCTECGKAFKYKHHLKEHLRIH
 SGKPYECPNCKKRF SHSGSYSSHISSKKCIGLISVNGRMRNNIKTGSSPNSVSSSPTNSAITQLRNKLE
 NGKPLSMSEQTGLLKI KTEPLDFNDYKVL MATHGFSGTSPFMNGGLGATSPLGVHP SAQSPMQHLGVGME
 APLLGFPTMNSNLSEVQKVLQIVDNTVSRQKMDCKAEEISKLGKGYHMKDPCSQPPEEQVTSNPVGLP
 VVSHNGATKSIIDYTLKVN EAKACLQSLTTDSRRQISNIKKEKLRTLIDLVTDDKMIENHNI STPFSCQ
 FCKESFPGPIPLHQHERYLCKMNEEIKAVLQPHENIVPNKAGVFVDNKALLSSVLSEKGMTSPINPYKD
 HMSVLKAYYAMNMEPNSDELLKISIAVGLPQEFVKEWFEQRKVYQYSNSRSPSLERSKPLAPNSNPPTK
 DSSLPRSPVKPMDSITSPSIAELHNSVTNCDPPLRLTKPSHFTNIKPVKLDHSRNTSPNLNLSSTSSK
 NSHSSSYTPNSFSSEELQAEPLDLSLPKQMKPKSIIATKNKTKASSISLDHNSVSSSENSDEPLNLT
 IKKEFSNSNLDNKSTNPVFSMNPFSAKPLYTALPPQSAFPATFMPVQTSIPGLRYPYGLDQMSFLPH
 MAYTYPTGAATFADMQRRKYQRKQGFQGELL DGAQDYMSGLDDMTSDSDCLSRKKIKKTESGMYACDLC
 DKTFQKSSSLLRHKYEHTGKRPHQCQICKKAFKHKHHLIEHSRLHSGEKPYQCDKCGKRF SHSGSYSQHM
 NHRYSYCKREAEREAREAREAREKGHLEPTELLMNRAYLQSI TPQGYSDSEERESMPRDGESEKEHEKEG
 EDGYGKLRQDGDDEFEFEFESENKSMDDTDPETIRDEEETGDHSMDDSSDGDGKMETKSDHEEDNMEDGM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:



Plasmid Map:



ACCN: NM_001171653

ORF Size: 3570 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_001171653.2](#)

RefSeq Size: 9171 bp

RefSeq ORF: 3573 bp

Locus ID: 9839

UniProt ID: [O60315](#)

Cytogenetics: 2q22.3

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: The protein encoded by this gene is a member of the Zfh1 family of 2-handed zinc finger/homeodomain proteins. It is located in the nucleus and functions as a DNA-binding transcriptional repressor that interacts with activated SMADs. Mutations in this gene are associated with Hirschsprung disease/Mowat-Wilson syndrome. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jan 2010]