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Product datasheet for RC227098

ZSWIM6 (NM_020928) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZSWIM6 (NM_020928) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZSWIM6
Synonyms:	AFND; NEDMAGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227098 ORF sequence, codon optimized.
Due to the complexity of NM_020928, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAACGGGGCCAGCAGCCCCCTCCTGCAAAGCGACTGTGCTGCAGGCCTGGTGGTGGCGGCGGGG
GGGGCGGAAGCTCAGGCGGGGGTGGCGGAGCCGGTGGCGGGTATTCTTCTGCATGTAGACCCGGTCCACG
CGCAGGAGGAGCGGCTGCAGCCGCTGCTTGCGGTGGTGGTGCCGCTCTGGGCCTGTTGCCTCCTGGGAAA
ACGCAGTCTCCAGAATCCCTTCTTGATATAGCAGCACGCAGAGTGGCTGAAAAATGGCCCTTTCAGAGGG
TAGAAGAGAGGTTCGAACGAATCCCGGAACCAGTCCAAAGACGCATCGTTTATTGGTCTTTCCCTAGAAG
CGAGCGGGAAATATGCATGTATTCAAGCTTCAACACCGGCGGGGGGGCTGCCGGCGGACCCGGCGACGAC
TCTGGAGGCGGAGGCGGAGCAGGGGGGGGGGGGGGAGGTGGCTCCAGTAGCTCTCCAGCCGCCACAAGCG
CCGCTGCAACCTCCGCGGCCGCCGCGGCCGCGGCTGCCGCAGCTGCCGCCGCGGCGGCCGCTGGCGCCGG
CGCTCCGAGTGTTGGTGCAGCCGGCGCCGCCGACGGCGGCGATGAAACTCGGCTTCCCTTCCGGAGGGGA
ATAGCCCTTTTGGAAAGTGGCTGCGTGGATAACGTGCTGCAGGTTGGCTTCCACCTGAGCGGGACAGTCA
CCGAGCCCGCCATTCAATCAGAGCCCGAGACAGTGTGCAACGTCGCCATTAGCTTCGACAGGTGTAAAAT
TACTAGCGTTACTTGCAGCTGTGGCAACAAAGATATCTTTTATTGCGCTCACGTAGTCGCACTCAGCCTG
TACCGGATTAGGAAACCTGACCAAGTCAAACTCCACTTGCCGATATCCGAGACACTCTTTCAGATGAACC
GCGACCAGCTCCAGAAGTTCGTCCAGTATTTGATCACCGTGCACCACACCGAAGTACTCCCGACCGCTCA
GAAGCTCGCAGACGAGATTCTCAGCCAGAATTCTGAGATCAATCAGGTTCACGGAGCGCCCGACCCAACT
GCAGGAGCGAGTATCGACGACGAGAACTGTTGGCATCTGGACGAAGAACAAGTGCAGGAGCAAGTGAAAC

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TGTTCCTCAGCCAAGGAGGGTATCATGGAAGTGGGAAACAATTGAACTTGCTGTTTGCCAAGGTCCGGGA
GATGCTCAAGATGAGAGATTCTAACGGCGCGCGCATGTTGACACTGATCACAGAGCAGTTTATGGCTGAC
CCACGCTTGAGTCTCTGGAGACAACAGGGAACTGCTATGACCGACAAATATCGCCAGCTCTGGGACGAAC
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TCTTCACCAGAGCAATTGAGGCCTGCGATTTGCACTGGCAGGACTCTCACCTGCAGCATATTATTTCATC
AGATCTTTACACGAATTACTGTTATCATGACGACACTGAAAACAGCTTGTTTGATTCACGCGGGTGGCCC
TTGTGGCATGAGCACGTGCCCACAGCCTGCGCGCGCGTAGACGCACTGCGGAGCCACGGCTATCCACGGG
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TAGAACCCAGAAAAAAGAGCTCCCCCACAAAAATATCACCAGCATTACGAACCTGGAGGGGTGGGTTGGC
CATCCTCTGGACCCCGTGGGCACTTTGTTTAGCAGCTTGATGGAGGCATGTAGAATCGATGACGAGAATC
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CAGCAGCGCATCATGCCAGATGGACTGTACACTCAAGAGAAGGTGTGTAGGAACGAAGAGCAACTCATAT
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TACTCAGCTTTTCACCATCGCGAGATACATGGAGCACAGAGGCTACCCCATGCGGGCGTACAAGTTGGCG
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GGGCATGCGCTTTGTCTCATTCCCTTGGCAAGAATGAACTGGCCGCGATCATTCCACTTGTCGTTAAAAG
CGTAAAGTGTGCGACAGTTCTGTCAGATATTCTCCGGCGCTGCACACTTACTACTCCTGGTATGGTCGGA
CTGCATGGCAGACGGAATTCAGGAAAGCTGATGAGCCTGGATAAGGCACCCCTGAGGCAGCTGCTTGATG
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CAGTTCATTGACAACCTGAAACAGATCTACAAGGGCAAGAAAAAGTTGATGATGCTGGTGCGCGAACGGT
TTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227098 representing NM_020928
Red=Cloning site Green=Tags(s)

MAERGQQPPPAKRLCCRPGGGGGGGGSSGGGGGAGGGYSSACRPGPRAGGAAAAAACGGGAALGLLPPGK
TQSPESLLDIAARRVAEKWPFQRVEERFERIPEPVQRRIVYWSFPRSEREICMYSSFNTGGGAAGGPGDD
SGGGGGAGGGGGGGSSSSPAATSAAATSAAAAAAAAAAAAAAAAGAGAPSVGAAGAADGGDETRLPFRRG
IALLESGCVDNVLQVGFHLSGTVTEPAIQSEPETVCNVAISFDRCKITSVTCSCGNKDIFYCAHVVALSL
YRIRKPDQVKLHLPISETLFQMNRDQLQKFVQYLITVHHTEVLPTAQKLADEILSQNSEINQVHGAPDPT
AGASIDDENCWHLDEEQVQEQVKLFLSQGGYHGSGKQLNLLFAKVREMLKMRDSNGARMLTLITEQFMAD
PRLSLWRQQGTAMTDKYRQLWDELGALWMCIVLNPHCKLEQKASWLKQLKKWNSVDVCPWEDGNHGSELP
NLTNALPQGANANQDSSNRPHRTVFTRAIEACDLHWQDSHLQHIISSDLYTNYCYHDDTENSLFDSRGWP
LWHEHVPTACARVDALRSHGYPREALRLAIAIVNTLRRQQQKQLEMFRTQKKELPHKNITSITNLEGWVG
HPLDPVGTLFSSLMEACRIDDENLSGFSDFTENMGQCKSLEYQHLPAHKFLEEGESYLTLAVEVALIGLG
QQRIMPDGLYTQEKVCRNEEQLISKLQEIELDDTLVKIFRKQAVFLLEAGPYSGLGEIIHRESVPMHTFA
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MLTAAKGDVRRLETVLESIQKNIHSSSHIFKLAQDAFKIATLMDSLPDITLLKVSLELGLQVMRMTLSTL
NWRRREMVRWLVTCATEVGVYALDSIMQTWFTLFTPTEATSIVATTVMSNSTIVRLHLDCHQQEKLASSA
RTLALQCAMKDPQNCALSALTLCEKDHIAFETAYQIVLDAATTGMSYTQLFTIARYMEHRGYPMRAYKLA
TLAMTHLNLSYNQDTHPAINDVLWACALSHSLGKNELAAIIPLVVKSVKCATVLSDILRRCTLTTPGMVG
LHGRRNSGKLMSLDKAPLRQLLDATIGAYINTTHSRLTHISPRHYSEFIEFLSKARETFLMAHDGHIQFT
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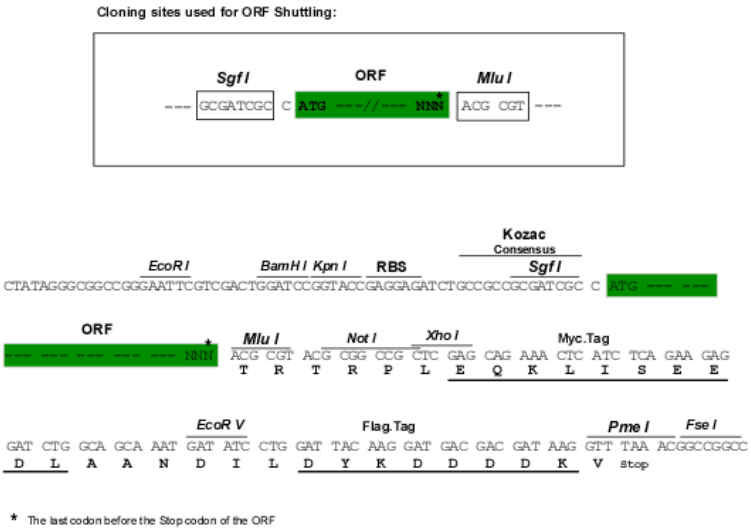
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

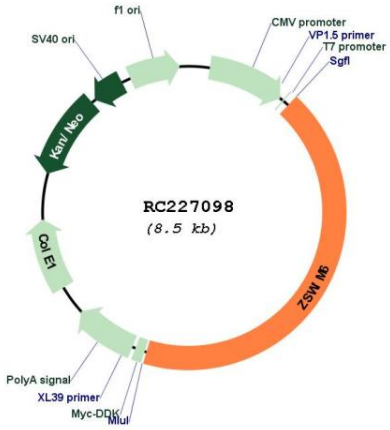


ACCN: NM_020928

ORF Size: 3645 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_020928.1, NP_065979.1
RefSeq Size:	5518 bp
RefSeq ORF:	3648 bp
Locus ID:	57688
UniProt ID:	Q9HCJ5
Cytogenetics:	5q12.1
MW:	133.5 kDa
Gene Summary:	The protein encoded by this gene contains a zinc finger SWI2/SNF2 and MuDR (SWIM) domain. Proteins with SWIM domains have been found in a diverse number of species and are predicted to interact with DNA or proteins. Mutations in this gene result in acromelic frontonasal dysostosis. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RC227098