

## Product datasheet for **SC107712**

### ZNF189 (NM\_197977) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF189 (NM_197977) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF189
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_197977, the custom clone sequence may differ by one or more nucleotides

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ATGATGGAGAATTATGGAAACCTGGTCTCACTGGATGTTTTGAACAGAGATAAGGATGAGGAGCCAAC
TAAACAAGAGATTGAAGAAATTGAGGAAGAAGTGAACACAGGGTGTAAATAGTTACAAGAATCAAAG
TGAAATTGACCAGGATCCTATGGGTAGAGAAACATTTGAACTTGTGGTAGGTTAGATAAACAAAGAGG
ATCTTCCTATGGGAAATACCAAGGGAATCTTTGACCCAGGAACAGAGAATGTTCCAGAGAAAACACTA
TTATCCGTAAAAGACCAAACCTCAGAAGAGAAATGCCATAAATGTGAAGAATGTGGAAAGGTTTTGTCC
CAAGGCCCATTTTCATTCAACATCAAAGGGTCCATACTGGTGTGAGAAACCTTTTCAGTGCAATGAATGTGG
AAAAGTTTTAGTCGCAGTTCATTTGTTATTGAACATCAGAGAATTCACACTGGGAAAGGCCCTATGAGT
GTAATTACTGTGGAAAAACCTTTAGTGTGAGCTCAACCTTATTAGACATCAGAGAATCCCACTGGAGA
AAGACCTATCAGTGTAAATCAGTGTAAACAGAGCTTCAGCCAGAGAAGGAGCCTTGTTAAACATCAAAG
ATTCATACAGGTGAGAAACCCATAAATGTAGTACTGTGGGAAAGCCTTCAGTTGGAAATCACACCTTA
TTGAGCATCAAAGAACTCACACTGGTGTGAGAAACCTTATCACTGTACCAAATGTAAGAAGAGCTTTAGTCG
AAATTCATTGCTTGTGAGCATCAAAGAATTCACACTGGGAAAGACCCATAAATGTGGTGAATGTGGG
AAAGCCTTTTCGATTAAGCACATACCTTATACAACCAAAAAAATTCACACTGGCGAGAAGCCTTTCTTT
GTATTGAGTGTGGAAAAAGTTTCAGTCGGAGCTCATTCTTATTGAACATCAGAGGATCCATACTGGTGA
AAGACCTTATCAGTGCAAAGAGTGTGGGAAAAGTTTCAGTCAGCTTTGCAACCTTACTCGTCATCAGAGA
ATTCACACAGGAGACAAGCCCCATAAATGTGAGGAATGTGGAAAAGCCTTATAGTAGAAGCTCAGGCTTA
TTCAGCATCAGAGAATTCACACCAGGGAGAAGACTTATCCATACAATGAAACTAAGGAAAGTTTTGATCC
AAATTGCAGTCTGTATACAGCAGGAAGTCTACCCTAAGGAGAAATCTATAAATGTGATGAATGTGGG
AAAATTTTTAGTGTAGTCTCATCTTTGTACAACATCAAAGAATCCCACTGGTGGAAAAGCCCTTCTAT
GTACTGTCTGTGGAAAAGCTTCAGCCGAGCTCATTCTTATTGAACATCAGAGAATCCCACTGGTGA
GAGACCTATCTGTGCAGACAGTGTGGAAAAGCTTTAGTCAGCTTTGTAATCTTATTTCGACATCAGGGT
GTTACACAGGTAATAAACCCCAATAAATGTGATGAATGTGGAAAAGCCTTATAGCCGGAACCTGGGCTTA
TTCAGCATCAGAGAATACACACAGGAGAGAAAACCTTATAAGTGTGAGAAGTGCACAAAAGTTTCAGTCA
ACAGCGCAGTCTGTCAACCATCAGAAGATCCATGCAGAGGTGAAAACCAAGAAAACCCATGAATGTGAC
GCTTGTGGTGAAGCCTTAAATGCCGTATTTCTTATTTCAGCATCAGAAATGCACACAGCATGGATGC
AATAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_197977 unedited

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GGGTTTTCANAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGGCTG
CGTAACCAGGCAGGAGTAGGGTTGGGGTTCGGGGTGGGGGACAGCCAGGGATCGCGTC
TGATATGCTGTTGGGGTCGTGACCGTCTGGGGCCGAGGCAGGCACTGGCCAGACCCAGC
CAGGGATCCTCGTATTCGTGAGCCTAATTTCCAGCAGCCGGTAGGCCTCACCAGAGGC
TCCTTTCCGTGAGGCCGCCCAATTCCTGCCCTATTCTCTGCCTGGGAGATGGCTTCC
CCGAGCCCCCGCGGAGTCGAAGGAGGAGTGGGATTATCTGGACCCAGCTCAGAGAAGC
CTGTATAAAGATGTCATGATGGAGAATTATGGAAACCTGGTCTCACTGGATGTTTTGAAC
AGAGATAAGGATGAGGAGCCAACCTGTA AAAACAAGAGATTGAAGAAATTGAGGAAGAAGTG
GAACCACAGGGTGAATAGTTACAAGAATCAAAGTGAATTTGACCAGGATCCTATGGGT
AGAGAAACATTTGAACTTGTGGTAGGTTAGATAAACAAGAGGGATCTTCCTATGGGAA
ATACCAAGGGAATCTTTGACCCAGGAACAGAGAATGTTCCAGAGAAAACACTAACATTATC
CGTAAAAGACCAAACCTCAGAAGAGAAATGCCATAAATGTGAAGAATGTGGAAAGGTTTT
GTCCGCAAGGCCCATTTTCATTCAACATCAAAGGGTCCATACTGGTGTGAGAAACCTTTTCAG
TGCAATGAATGTGGAAAAGTTNTAGTCGCAGTTCATTTGTTATTGAACATCAGAGAATT
CACACTGNGAAANGCCCTATGAGTGAATTAATCTGTGGAANAACCTTTAGTGTGAGCTC
AACCTATTAGACTCAGAGAATCCCACTGGAGAAGACC
    
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<b>3' Read Nucleotide Sequence:</b>	<pre>&gt;OriGene 3' read for NM_197977 unedited CCGCGGCCGCATCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTGAAAAACAAAACAGGTTTTAATGGTTAAAACAGATGAATTAATAGGTTTATAATAACC ATTAACATAAGGGAAGCCCTAAAACAAAAAATAAGGATTTTTAATTGCATGCAAAACCTAG TTACCATAAAAACCAATGCAATACCAAAATATTCAACTTCTAACATAAACTCCAGGTC TTTTCAATTTCCAATACTTGGCAGTCATAATATGTACACTTCATATGCACCTGGTTGGGG AGGGATAAGCTCATTACATAGGACTACAAATATCTCTCACAGGTAGGAGGGCACAAAAA AACAAATATCTTCTCCACTTTTTTGGGTCCATCTTGAAAAACAAAAAAGGCACTCCAAA GGTTCCTTGTTAACACCTTTGTTAGGGTCTTAATTACTAACATAATCTTTACATGTAAG GGTAATGGGCCACTCATTTATAAATCTGGGAACCATCAGGCATTGGAAGTGCCTTTAAC TCACATGCCAAACAACTGGCTTTTTTAAACAATGACAAAAACTGTATACTTGTTTAAAA ACATTTGGGCTTTGGTTCCTTGACAACCTATATATGCTTAATCACTGGACTTTGGCATGC AGAGCCAAACATATTATGGGACTGAAAGAACCACCTTTGACATGGTGACAGAAAACCTCT TTGAATCATTATTCTGGTTTCCACTATCAGCTGCTTCCAACCTCCTTATACTAATCCAA CTTTGGCCCTTAAACCACCATGCCTTTAACCTAAGGTTAATTCTCTCTGCTGAAAGATT TATTAAGATCCCTAAATAATTCCCAAGTTTTTCTCTACAACCTCAAAAAGTAAGGGG AGTCATATGTCAATGGCCGTTGTCCATATTTACAGGATTTTAAAAAN</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_197977
<b>Insert Size:</b>	3080 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_197977.1</a> , <a href="#">NP_932094.1</a>
<b>RefSeq Size:</b>	3280 bp
<b>RefSeq ORF:</b>	1755 bp
<b>Locus ID:</b>	7743
<b>UniProt ID:</b>	<a href="#">O75820</a>
<b>Cytogenetics:</b>	9q31.1
<b>Protein Families:</b>	Transcription Factors

**Gene Summary:**

Kruppel-like zinc finger proteins such as ZNF189 contain a conserved stretch of 7 amino acids that connects a variable number of DNA-binding zinc finger repeats of the cys(2)his(2) (C2H2) type (summarized by Odeberg et al., 1998 [PubMed 9653648]). Approximately 30% of human Kruppel-like zinc finger proteins contain an N-terminal Kruppel-associated box (KRAB) domain. The KRAB domain consists of approximately 75 amino acids that may be subdivided into an A box, which is present in every KRAB domain and is essential for transcriptional repression, and a B box, which is not always present.[supplied by OMIM, May 2010]

Transcript Variant: This variant (2) contains an alternate 5' exon and uses an alternate splice junction at the 5' end of an exon compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus compared to isoform 1.