

Product datasheet for **SC310007**

ZNF451 (NM_015555) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF451 (NM_015555) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF451
Synonyms:	COASTER; dj41711.1
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM_015555, the custom clone sequence may differ by one or more nucleotides

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ATGGGAGACCCGGGTCCGAGATAATAGAATCTGTCCCTCCAGCTGGCCCTGAGGCATCT
GAGTCAACAACGGATGAAAATGAAGACGACATTGATTTGTCAGTGAAGGACCATTACGA
CCTGTTCTTGAATACATTGATCTGGTCAGCAGTGATGATGAAGAGCCTAGCACCTTTAT
ACTGATGAGAATATTAACGTAAGACCATATTGATTATCAGAAGGATAAAGTTGCTTTA
ACTCTGGCTCGTCTAGCCCGCCATGTTGAAGTGGAGAAACAGCAGAAAGAAGAGAAGAAT
AGAGCATTGAGAGAAAAATTGATTTTCAGCATGCTCATGGGTTACAAGAATTGGAATTT
ATTCGAGGACATTCTGATACAGAAGCAGCAAGACTGTGTGTGGACCAGTGGCTAAAAATG
CCAGGACTCAAAACAGGCACAATTAATTGTGGAACAAAAGTTTCATTCCGAAGAGGAGGC
CACACGTGGGTGTCTGGGAAACCAATTTATGTCCTATAATGCACTGTAACAAGGAGTTT
GACAATGGGCACCTTCTCTTAGGACATTTGAAAAGTTTCGATCACTCTCCATGTGATCCA
ACAATTACACTACATGGACCTTTCTTCAGCTCCTTTGCTTGTGTAGTATGTTATAAAAAA
TTTGTACTCAACAACAATATAGAGATCACCTTTTGTAAAGGAAGCCACAGATGATGGA
CATAACAACAACCTTCTCCTCAGATTATTCAGTGTGTTGTCATGTCCAAATTGCTTCCTT
CTTTTTAGCAGAAAGGAGGAGTGTCAAAGCATATGCTGGAAAGAATCATTCCATCAG
AGTTTCAAACCTGGGTGATAACAAAGGAATTGCACATCCAATATCTTTCCATCTTTTGA
AAGAAACTTTTGTCTCTGTGCAAAAGATGTTCCCTTTCAAGTTAAGTGTGTGGCCTGC
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GCTGGACCTGTAGCTGTAGCTGAGAAGAGCATTACCCAGGTTGCAGAGAAATTCATATTA
AGAGGTTATTGTCCAGATTGCAATCAAGTCTTTGTGGATGAAACCAGCACCCAAAATCAT
AAGCAGAATTCAGGACACAAAGTCCGAGTCATTAAGTCAAGTGAAGAATCAGTCTTACTC
TATTGCCACAGCAGCGAAGGGAACAAGGATCCTTCTTCTGACTTGCATTTATTGTTGGAT
CAATCAAAATTTTCATCACTTAAAAGAACCATGTCTATTAAGAATCTAGCTCACTGGAG
TGCATTGCCATTTCAAAAAGAAGATGAATTTAAAAGATAAAAGCCATGAAGGTGTTGCT
TGTGTCCAGAAAGAAAAATCAGTAGTTAAAACCTGGTTCTGTGAATGCAATCAGCGATT
CCAAGTGAAGATGCAAGTGAAGAAAGCATGTTTTCTCAGCAAACACAATGGGTTATAAATGT
GTGGTCTGTGGAAAGGTATGTGATGATTCAGGGTCATTTCGTTTACACATGAGCCGGATT
CACGGAGGGGCACATTTAAATAACTTTCTTTTCTGGTGTGCGACATGCAAAAAGGAGTTA
ACAAGGAAAGATACTATCATGGCACATGTGACTGAATTTTATAATGGACACAGATATTTT
TATGAGATGGATGAGGTAGAAGGTGAAACTTTGCCATCATCTCTACAACATTGGATAAT

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TTGACTGCTAACCAAGCCTTCATCAGCTATTACTGTTATTGATCATTCCCCGGCAAATAGT
TCTCCGAGGGTAAATGGCAATGCCGATTTGTGAAGATATGTTTGATTCCCAGGAATAT
GTAAAACAGCACTGCATGTCTTTGGCAAGCCACAAGTTTCATAGATACAGCTGTGCTCAC
TGCAGAAAAGCCTTTTCATAAGATAGAAACATTGTACCGACATTGCCAAGATGAGCATGAC
AATGAGATAAAGATTAATACTTCTGTGGGCTTTGTGATCTTATCTTTAATGTGGAAGAA
GCATTTCTGAGTCATTATGAGGAGCACACAGCATAGATTATGTATTTGTGTCAGAAAAA
ACTGAACTTCAATTAACCGAAGATGATTTTCCAGTAATAGAGACCAGTAACCGATTA
ACTTGTGTTGCCGTGAGAGTTACATCTGTAAAGTCAACAGAAAAGAAGATTATAGCAGA
TGCTCCAAATCATGCTGGATAAAGGAAAAGTGTGGTTTCGCTGCAGTTTATGTTGCGCA
ACAGCACAGAATTTAACCGACATGAACACTCATATCCATCAAGTGCACAAAAGAAAAGAGT
GATGAGGAGGAGCAGCAGTATGTAATCAAGTGTGGCACCTGCACCAAAGCATTTCATGAT
CCTGAGAGTGCACAGCAGCATTTCATAGAAAACATTGCTTCTTACAGAAAACCCAGTGTG
GCTCATTTTGGATCTGAAAAATCAAACCTGTACAAGTTTACTGCTAGTGCCTCACATACA
GAGAGAAAAGTGAACAGGCAATAAACTATTCAAAAAGTTTAGACATGGAGAAAAGGAGTT
GAGAATGACCTAAGCTATCAGAATATAGGAGGAAACACCAATTGGAAGCCTCCGCTCAAC
TGTAAGATTTATAACTACCTGAACAGGATTGGATGCTTCTTCTTCATCCCTCGCTGATG
AAAAGAAAAGATGCTGCTGATTTTGCCATATGTATGCATGCTGGCCGTCTAGATGAACAA
CTACCAAGCAAATTCCTTTACCATCCTCTCAGGAGATCAAGGTTTTCTGGAGCTAGAG
AATCAATTTAAGAAGACTCAGAGGCCAGCTCATATACTAAACCCTCACCCTTAGAGGGA
GATATGATGTGTGCTTGTAAATAGCATATCTGATACCACCAAAGAATGTGACAGTGAT
GATAACATGGGTGCCAAAAATACTTCAATAGGAGAAGAATTTATCCACAGAAGATGTG
GAATTAGAAGAAGCTATTAGAAGAAGTCTTGAGGAAATGTAA

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Restriction Sites:

Please inquire

ACCN:

NM_015555

OTI Disclaimer:

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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_015555.2](#), [NP_056370.2](#)

RefSeq Size:

5097 bp

RefSeq ORF:

3042 bp

Locus ID:

26036

UniProt ID:	<u>Q9Y4E5</u>
Cytogenetics:	6p12.1
Domains:	zf-C2H2
Protein Families:	Transcription Factors
Gene Summary:	<p>E3 SUMO-protein ligase; has a preference for SUMO2 and SUMO3 and facilitates UBE2I/UBC9-mediated sumoylation of target proteins (PubMed:26524493, PubMed:26524494). Plays a role in protein SUMO2 modification in response to stress caused by DNA damage and by proteasome inhibitors (in vitro). Required for MCM4 sumoylation (By similarity). Has no activity with SUMO1 (PubMed:26524493). Preferentially transfers an additional SUMO2 chain onto the SUMO2 consensus site 'Lys-11' (PubMed:26524493). Negatively regulates transcriptional activation mediated by the SMAD4 complex in response to TGF-beta signaling. Inhibits EP300-mediated acetylation of histone H3 at 'Lys-9' (PubMed:24324267). Plays a role in regulating the transcription of AR targets (PubMed:18656483).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to variant 1. Isoform 2 is shorter, compared to isoform 1.</p>