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Product datasheet for SC330591

ZNF451 (NM_001257273) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: ZNF451 (NM_001257273) Human Untagged Clone

Tag: Tag Free

Symbol: ZNF451

Synonyms: COASTER; dJ417I1.1

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

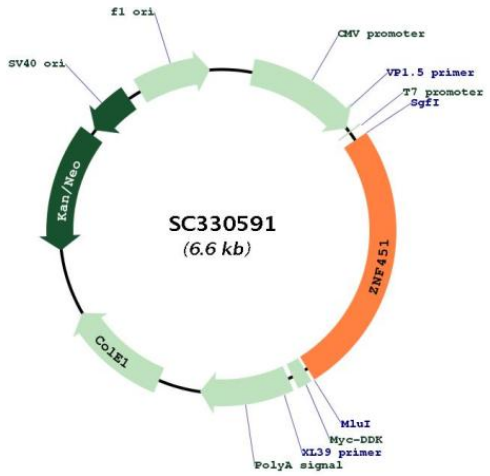
>SC330591 representing NM_001257273.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGGAGACCCGGGGTCGGAGATAATAGAATCTGTCCCTCCAGCTGGCCCTGAGGCATCTGAGTCAACA
ACGGATGAAAATGAAGACGACATTCAGTTTGTCAGTGAAGGACCATTACGACCTGTTCTTGAATACATT
GATCTGGTCAGCAGTGATGATGAAGAGCCTAGCACCTCTTATACTGATAGAATGCCTGAATCTAAGGTG
CCATCCTCTGAGAATCATCGCCCAGAAATGTGCTCTAGCTGCAATGTTCCTCTTCCCATTGGAGATAGC
AGCTCCTTCTCTGGGAGTTGTTCCAGCAGTCCAGAAAGGATAGTTTCTCAAACTTCCTCTGTTGAGAAC
CCATTGGAGAACCAGAAAAATGATCAAAATAATTCAGATACTAAGATCTCTGAGACAGAGACCCTTAAA
TCATCACAGAATTTTCAGACTCTGCCTTCATCTCCACTTCTGGTCCCCCAAGAATCTTTGGCCTCTTCT
GAGGTCAAAGAGAATTTACGTATAGATTCTTCTTCAGCTTCACAGCATGGACGGGATGCCATCCTCTAT
CTCCAGACACAAGTAGCTGAAATGTCCCGAGTGATACGTGATCTGCAGTCCAGGAGCTGTTTTAGATTT
CATCATTCTAGGCCAAGTGAGAACTCCTCAGTTCCTTGGGACATCTCCACCTCTAAAGAGGAAAATTTA
TCCACAGTTGAAGAAGAAACTGATTACAAATCACCATCAGCTGATGACAAAGGGCAGCCATCTGACCCC
AGCCAATCTAGTTTCACAGGTCTTTTGAAGAGAATGGAACAAAGAGGTGTTATAAAAAGGGTGACATTA
CAATCTGAAGCGGAGTCATGTGAAGGGAAACCTGATTGTGTGACTTCTAAAAAACGTTTGGTTCCTCCA
TTGCATCCTCTTCTGAGAATTGCCACCACTGAGGTTTTTAAAGACCCTGCTGATTGCCATCCTTCTTCC
TTCATGGGACACAGGGTATATCCTGTGGCCAAGGACACCTCTCCTTTCCAACCAAACCCACCAGCTGAA
GGCCCCATTGTAGAAGCATTAGAACACAGCAAAAGAGGAAACACAACATCCCCTCTAGATTCTACCTCA
AAAGAAATGGAGGTCATGGGTTGTAGGTTTTACCACGCTGCCTCCATTGCAGCCCGAGCTGCTAGCTAC
ATGGCCTATATGACTCAATATCAGCGTAAACTCTGGGAAGACATGGAAGATCTGGTTCATGACCCAGAA
TTTGATCGTGGAAAAGCAAGATGCATAATATCTGATGGTATGGATGCAGGCCTTTGGCAACTTTGTACT
ACTAGGGACATAATGGACTCTGTAGTCAGAGTTATGGCCATGGCCATAGACTATAGACGGCAGGCCTGG
CTTCGACTTACATCTCTCACTAAGAAAACCCAGGAGAAGATCTCCCACTTGCCCTTTGATGGTACTTCC
CTTTTTGGACAAGATGTGAAAGCTGTTGTTGCAGAAGACAACAATATAAAAGAAAATGACTATAAAGAT
CACAAATACTATAATCAGCATCGATACTTTTATAGTCATGATCAGAAAGCACATTATCACAATAGAGGA
TACTCCAAAGGGGATTGGTACAAACCTCGAAACCACCCCTATAGATATAGAAAGAAGGGAGACTCTCCA
GAACGCCATGGGTACAAGAATTAA

Restriction Sites: SgfI-MluI

View online »

Plasmid Map:



ACCN:	NM_001257273
Insert Size:	1680 bp
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).
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_001257273.1
RefSeq Size:	9558 bp
RefSeq ORF:	1680 bp
Locus ID:	26036
Cytogenetics:	6p12.1
Protein Families:	Transcription Factors
MW:	63 kDa

Gene Summary: 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]
Transcript Variant: This variant (3) lacks several exons and its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR compared to variant 1. It encodes isoform 3 which is shorter and has a distinct C-terminus, compared to isoform 1.