



CTGAAGAATATCCGGCAGTTTATTATGCCTGTGGTGAGTGCCCGCTCCTCCCGTGCATC  
 AAGACACCCCGCGATTTATGGATGAAGACCCCCCAAACCCCAAGGTGGAGGTCTCA  
 CCTGTCTGCGACCTCCATTACCACTCCCACTGTTCCCAAGGAGCCAGCACCAGTC  
 CCCTCTCCACCACGTGCCCAACTCCTCCATCTACCCAGTTCCTACTCCTGAGAAGAGA  
 CGGTCCATCCTAAGGGAACCCACATTTTCGCTGGACCTCACTGACCCGGGAGCTGCCCCCT  
 CCTCCCCAGCCCTCCACTCCCGGCCCTCCCAACCCCTGCTCCTGCCACTCC  
 TCCCGGAGGCCCTACTCCTTCGGGCCCTCAGTTTACCCCAAGCGAAGCCACCTGAAG  
 ATCTACGAATCGGTGCTTACTCCTCCTCCTTGGGGCTCCTGAAGCCCTGAGCCAGAG  
 CCTCCTCCTGCCGATGACTCTCCAGCTGAGCCTGAGCCTCGGGCAGTGGGCCGACCAAC  
 CACCTCAGCCTGCCTCGATTGCCCCCTGTGGTCACTACTCCTGTTAAGGCCGAGGTGTCC  
 CCTCACGGGGCTCCAGCTCTGAGCAACGGGCCACAGACACAGGCTCAGCTACTGCAGCCC  
 CTGCAGGCCTTGCAAACCCAGCTCCTGCCCCAGGCACTACCGCCACCACAGCCACAGCTG  
 CAGCCACCGCCGTACCACAGCAGATGCCTCCCCTGGAAAAGCCCGGATTGCGGGCGTG  
 GGTTCCTTGCCGCTGTCTGGGGTAGAGGAGAAGATGTTACGCCTCCTCAAGAGAGCCAAA  
 GTGCAGCTA : : TTCAAGATCGATCAGCAGCAGCAGCAGAAGGTGGCAGCTTCCATGCCGC  
 TGAGCCCTGGAGGGCAGATGGAGGAGGTGGCCGGGGCTGTCAAGCAGATCTCCGACAGAG  
 GCCTGTCCGGTCTGAAGATGAGTCGGTGAAGCTAAGAGAGAGCGGCCCTCAGTCCCCG  
 AGTCCCCTGTGCAAGGTCCCCGCATCAAACATGTCTGCCGTATGCTGTGTGGCCCTGG  
 GTCAGGCCCGGGCCATGGTGCCTGAAGATGTCCCTCGCCTCAGTGCCCTCCCTCTCCGGG  
 ATCGGCAGGACCTCGCCACAGAGGATACATCATCGGCGTCCGAGACTGAGAGTGTCCCGT  
 CACGGTCCCGGGGAAAGGTGGAGGCAGCAGGCCCTGGGGGAGAATCAGAGCCACAG  
 GTTCTGGAGGGACCTGGCCACACACCCCGGCGCTCACTGCCCTCCCATCACGGCAAGA  
 AGATGCGCATGGCTCGATGTGGACACTGTGGGGCTGCCTACGTGTGCAGGACTGTGGT  
 CCTGTGTCAACTGCCTAGACAAGCCCAAGTTTGGGGGCCCTAACCCAAGAAGCAGTGCT  
 GTGTATACCGGAAGTGTGACAAAATAGAGGCTCGGAAGATGGAACGACTGGCTAAAAAAG  
 GCCGGACGATAGTGAAGACGCTGTTGCCCTGGGATTCCGATGAATCTCCTGAGGCCTCCC  
 CTGGTCTCCAGGCCACGCCGGGGGGCGGAGCTGGGGGGCCCCGGGAGGAGGTGGTG  
 CCCACCCAGGGCCGAGGAGCAGGACTCCCTCCTGCAGCGCAAGTCAGCTCGGCGCTGCG  
 TCAAACAGCGACCCTCCTATGATATCTTCGAGGATTCCGATGACTCGGAGCCCGGGGCC  
 CCCCTGCTCCTCGGCGTCCGACCCCGAGAAAATGAGCTGCCACTGCCAGAACCTGAGG  
 AGCAGAGCCGGCCCCGAAACCTACCCTGCAGCCTGTGTTGCAGCTCAAGCCCCGAAGGC  
 GCCTGGACAAGGATGCTTTGGCCCTGGCCCTTTGCTTCTTTTCCCAATGGCTGGAAGT  
 GAAAGCAGAAGTCTCCCGATGGTGTGCACCCGCTCCGTGTGGATTTAAGGAGGATTGTG  
 ATTTAGAGAACGTGTGGCTGATGGGGGGCTGAGTGTGCTCACCTCTGTGCCAGGGGGCC  
 CCCCAGTGGTGTGCTTGTGTGTGCCAGCAAAGGACTCCACGAGCTGGTGTCTGTCAAG  
 TCTGCTGTGACCCATTCCACCCATTCTGCCTGGAGGAGCCGAGCGGCCCTGCCCCAGC  
 ATCAGCACCTGGTGTGCCGTGCTGCAAATCTGCCACGTCTGTGGACGCAAAGGTC  
 GTGGATCCAAGCACCTCCTGGAGTGCAGCGCTGCCGCCATGCATACCACCCGGCCTGTC  
 TGGGGCCAGCTATCCAACCCGGGCCACGCGCAAACGGCGCCACTGGATCTGTTACGCT  
 GTGTGCGCTGTAAGAGCTGTGGGCAACTCCAGGCAAGAAGTGGGACCTGAGTGGTCTG  
 GAGATTACAGCCTCTGCCCCAGGTGCACCCAGCTATATGAGAAAGGAAACTACTGCCCGA  
 TCTGTACAGCTGCTATGAAGACAACGACTATGAGAGCAAGATGATGCAGTGCACAGT  
 GCGATCACTGGTGCATGCCAAGTGCAGGGGGCTCTCAGATGAAGACTACGAGATCCTTT  
 CAGGACTGCCAGACTCGGTGCTGTACACCTGCGGACCGTGTGCTGGGGCAGCGCAGCCCC  
 GCTGGCGAGAGGCCCTGAGCGGGGCCCTCAGGGGGGCTGCGCCAGGTGCTCCAGGGCC  
 TGCTGAGCTCAAAGTGGTGGGCCCACTGCTGCTGACCCAGTGTGGCCAGATGGGA  
 AGCAACTGCACCCAGGACCTGCGGCCTGCAAGCTGTGAGTCAAGCCTTCGAGGATGGCC  
 ACTACAAGTCTGTGCACAGCTTCATGGAGGACATGGTGGGCATCCTCATGCGGCACTCGG  
 AGGAGGGAGAGACCCCGACCGCGGGCTGGAGGCCAGATGAAGGGGCTCCTGCTGAAGC  
 TGCTAGAATCTGCGTTCGGCTGGTTCGACGC : CCACGACCCCAAGTACTGGCGACGGAGT  
 ACCCGGCTGCCAAACGGAGTCTTCCCAATGCGGTGTTGCCCCATCCCTGGATCATGTC  
 TATGCGCAGTGGAGACAGCAGGAACAGAGACCCAGAATCAGGGCAGCTCCAGGGGAT

CCCTCAGCAGCATTCCAGGGCAAGGATCCGGCTGCCTTCTCACACCTGGAGGACCCCGT  
 CAGTGTGCACTCTGCCTCAAATACGGGGATGCAGACTCCAAGGAGGCGGGCGGCTCTTG  
 TACATCGGGCAGAACGAGTGGACACACGTCAACTGTGCCATCTGGTCGGCGGAAGTCTTC  
 GAGGAGAACGACGGCTCCCTCAAGAAATGTGCATGCTGCTGTGGCCGAGGGAGGCAGATG  
 CGCTGCGAGCTCTGCCTGAAGCCTGGCGCCACGGTGGGCTGCTGCCTGTCTCTGCCTC  
 AGCAACTTCCACTTCATGTGTGCCCGGGCCAGCTACTGCATCTTCCAGGATGACAAGAAA  
 GTCTTCTGCCAGAAACACACTGATCTCCTGGATGGCAAGGAAATGTGAACCCCGATGGT  
 TTTGATGTTCTCCGCGAGTCTATGTGGACTTCGAGGGCATCAACTTCAAGCGGAAGTTC  
 TTGACGGGGCTTGAACCCGATGCCATCAACGTGCTCATTGGTTCCATCCGCATTGACTCC  
 CTGGTACTCTGTCTGATCTCTCGGACTGCGAGGGACGGCTTCCCCATTGGCTACCAG  
 TGCTCCCGTCTGTACTGGAGCACAGTGGATGCTCGGAGGCGTGTGGTATCGGTGCCGA  
 ATTCTGGAGTATCGGCCATGGGGCCGAGGGAAGAGCCAGCTCACCTGGAGGCTGCAGAG  
 :GAGAACCAGACCATTGTGCACAGCCCCGCCCTTCTCAGAGCCCCAGGTGGTGAAGGA  
 CCCCCACTGGACACAGATGTTCTTGTCCCTGGAGCTCCTGAGCGCCACTCGCCATTCA  
 GAACCTGGACCCTCCACTGCGGCCAGATTAGGCAGCGCCCTCCTCCAGCCCCCGTTC  
 TTTTTCGGGGGCTCGAATCAAAGTGCCCAACTACTCGCCATCCCGGAGGCCCTTGGGGGG  
 TGCTCTCTTTGGCCCCCTGCCCTCCCCTGGAAGTCCATTTCACTGACCCACCACATCCC  
 CACAGTGGGAGACCCGGACTTCCAGCTCCCCCAGACGTTCCCGTCTGCCAGCCCTTT  
 GGCTCCCAGGCCGCTCCATCACGGTGGGCTCCCCTCTCTAAAAACCTCCCCTCAGCT  
 CAGGGTGGCCCCCTCTACCTCAGTCGTACAGCCCTCACACCTACCTCAGGGGAGCTGGC  
 TCCCCCTGGCCCCGCCCATCTCCACCACCCCTGAAGACCTGGGCCAGACTTCGAGGA  
 CATGGAGTGGTGTGAGGACTGAGTGTGCTGACCTGGACTTCGCGGCCAGCCTGCTGGG  
 GATGAGCCCTTCCAGGAAGAGATTGTAGCCGCTGGGGCCATGGGGAGCAGCCACGGGGG  
 CCGGGGGACAGCTCCGAGGAGGAGTCCAGCCCCACCTCCCGCTACATCCACTTCCCTGT  
 GACTGTGGTGTCCGCCCTGGTCTGGCCCCAGCGCTACCCCTGGAGCCCCCGATTGA  
 ACAGCTGGACGGCGTGGACGACGGCACTGACAGTGAAGGCTGAGGCGGTGCAGCAGCCTCG  
 GGGCCAGGGCACGCTCTTCCGGGGCCAGGAGTAGTCCGGGCAGGGGTCTTGGGGCTGC  
 AGGGGACAGGGCCGGCTCCTGAGGACCTGCCATCGGAAATTGTGGATTTTGTGTTGAA  
 GAACCTAGGGGTCTGGGGATGGAGGTGCTGGCCCTAGAGAGGAGTCACTCCCCCGGC  
 GCCTCCCCTGGCTAATGGCAGCCAGCCCTCCCAAGGCCTGACCGCCAGCCAGCTGACCC  
 CACCCGCACATTTGCCTGGCTCCAGGGGCCCCAGGGGTCCGGGTGTTAAGCCTTGGCCC  
 TGCCCCTGAGCCCCCAAACCCGCCACATCCAAAATCATACTTGTCAACAAGCTGGGGCA  
 AGTATTTGTGAAGATGGCTGGGGAGGGTGAACCTGTCCCACCCCAAGTGAAGCAGCCACC  
 TTTGCCCCCCACCATTTCCCCACGGCTCCCACCTCCTGGACTCTGCCCCAGGGCCCCCT  
 CCTCGGCGTGTGCCGTGGTGGAGTGGTCCGCCCTGCCCGCCCCCGCCACCCCTCC  
 CCTGACGTGGTGTGAGCAGTGGGCCAGCCAGCCCGCCCCGCCAGGCCATCCGCGTCAA  
 GAGGGTGTCCACTTTCTCCGGCCGGTCCCGCCAGCACCTCCCCATACAAAGCCCCCGG  
 GCTGGATGAAGATGGAGAGGCCTCAGAGGATACCCCTCAGTTCCAGGGCTTGGCAGTGG  
 CGGGTTTAGCCGTGTGAGGATGAAAACCCACAGTGCCTGGGGTCTTGGCTGATCG  
 GCCTGGGGAGCCCGCTGGGGAAGAAAGTCTGGGCCCTCCAGGAACGGTCCCCTTTGCT  
 GCCACTTCCGGAAGATGGTCTCCCCAGGTCCCGATGGTCCCCAGACCTGCTGCTTGA  
 GTCCCAGTGGCACCATACTCAGGTGAGGCTTCGAGCTCTGAGGAAGAGCCTCCATCCCC  
 AGATGATAAAGAGAACCAGGCCAAAACGGACTGGCCACATCTGCGCTTCGAGATCAG  
 CAGTGAAGATGGGTTTCCAGGTTGAGGCAGAGAGCTTGGAGGGGGCGTGGAGAAGTCTGAT  
 CGAGAAAGTGAAGAGGCCCGAGGGCATGCCGACTCAGACATCTCTCTTTAGTGAAT  
 GAGTGGGGCGAGACTCCTGGGCATCCACCATGATGCTGTATCTTCTGGCCGAGCAGCT  
 CCCCAGAGCCAGCGTTGCCAGCACTATAAGTTCCGTTACCACCAGCAGGGAGAGGGCCA  
 GGAGGAGCCGCCCTGAATCCCATGGGCTGCTCGGGCAGAGGTCTATCTCCGGAAGTG  
 CACCTTTGACATGTTCAACTTCTTGGCCTCCCAGCACCGGTGCTCCCTGAGGGGGCCAC  
 CTGTGATGAGGAAGAGGATGAGGTGCAGCTCAGGTCAACCAGACGTGCCACCAGCCTGGA  
 GCTGCCATGGCCATGCGTTTTTCGTACCTTAAGAAGACGTCAAAGAAGCTGTGGGTGT  
 CTACAGATCAGCCATCCACGGGGCAGGCCTGTTCTGTAAGCGCAACATCGACCGGGGGA

```
GATGGTCATCGAGTACTCTGGCATTGTCATCCGCTCGGTGTTGACTGACAAGCGGGAGAA
GTTCTACGATGGGAAGGGCATCGGGTGCTATATGTTCCGCATGGATGACTTTGATGTAGT
GGACGCCACGATGCATGGCAATGCCGCCGCTTCATCAACCACTCCTGTGAGCCCACTG
CTTCTCTCGGGTCATCCACGTGGAGGGCCAGAAACACATTGTTATCTTCGCCCTGCGCCG
CATCCTGCGTGGTGAGGAGCTCACCTACGACTACAAGTCCCCATCGAGGATGCCAGCAA
CAAGCTGCCCTGCAACTGTGGCGCCAAGCGCTGCCGTTCGTTCTTAACTGA
```

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_014727
<b>Insert Size:</b>	8600 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>OTI Annotation:</b>	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.
<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_014727.1</a> , <a href="#">NP_055542.1</a>
<b>RefSeq Size:</b>	8469 bp
<b>RefSeq ORF:</b>	8148 bp
<b>Locus ID:</b>	9757
<b>UniProt ID:</b>	<a href="#">Q9UMN6</a>
<b>Cytogenetics:</b>	19q13.12
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes a protein which contains multiple domains including a CXXC zinc finger, three PHD zinc fingers, two FY-rich domains, and a SET (suppressor of variegation, enhancer of zeste, and trithorax) domain. The SET domain is a conserved C-terminal domain that characterizes proteins of the MLL (mixed-lineage leukemia) family. This gene is ubiquitously expressed in adult tissues. It is also amplified in solid tumor cell lines, and may be involved in human cancer. Two alternatively spliced transcript variants encoding distinct isoforms have been reported for this gene, however, the full length nature of the shorter transcript is not known. [provided by RefSeq, Jul 2008]