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Product datasheet for SC104183

SETD2 (AK026837) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETD2 (AK026837) Human Untagged Clone
Tag:	Tag Free
Symbol:	SETD2
Synonyms:	HBP231; HIF-1; HIP-1; HSPC069; HYPB; KMT3A; LLS; p231HBP; SET2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for AK026837, the custom clone sequence may differ by one or more nucleotides

ACAGATATGATACACCAACTTCTAAAAAGAAAGTACGAATTAAAGACCGCAATAAACTTTCTACAGAGGA
ACGCCGGAAGTTGTTTGAGCAAGAGGTGGCTCAACGGGAGGCTCAGAAACAACAGCAACAGATGCAGAAC
CTGGGAATGACATCACCACTGCCCTATGACTCTCTTGGTTATAATGCCCCGCATCATCCCTTTGCTGGTT
ACCCACCAGGTTATCCCATGCAGGCCTATGTGGATCCCAGCAACCCTAATGCTGGAAAGGTGCTCCTGCC
CACACCCAGCATGGACCCAGTGTGTTCTCCTGCTCCTTATGATCATGCTCAGCCCTTGGTGGGACATTCT
ACAGAACCCCTTTCTGCCCCTCCACCAGTACCAGTGGTGCCACATGTGGCAGCTCCTGTGGAAGTTTCCA
GTTCCCAGTATGTGGCCCAGAGTGATGGTGTAGTACACCAAGACTCCAGCGTTGCTGTCTTGCCAGTGCC
GGCCCCCGGCCCAGTTCAGGGACAGAATTATAGTGTTTGGGATTCAAACCAACAGTCTGTCAGTGTACAG
CAGCAGTACTCTCCTGCACAGTCTCAAGCAACCATATATTATCAAGGACAGACATGTCCAACAGTCTATG
GTGTGACATCACCTTATTCACAGACAACTCCACCAATTGTACAGAGTTATGCCCAGCCAAGTCTTCAGTA
TATCCAGGGGCAACAGATTTTCACAGCTCATCCACAAGGAGTGGTGGTACAGCCAGCCGCAGCAGTGACT
ACAATAGTTGCACCAGGGCAGCCTCAGCCCTTGCAGCCATCTGAAATGGTTGTGACAAATAATCTCTTGG
ATCTGCCGCCCCCCTCTCCTCCCAAACCAAAAACCATTGTCTTACCTCCCAACTGGAAGACAGCTCGAGA
TCCAGAAGGGAAGATTTATTACTACCATGTGATCACAAGGCAGACTCAGTGGGATCCTCCTACTTGGGAA
AGCCCAGGAGATGATGCCAGCCTTGAGCATGAAGCTGAGATGGACCTGGGAACTCCAACATATGATGAAA
ACCCCATGAAGGCCTCGAAAAAGCCCAAGACAGCAGAAGCAGACACCTCCAGTGAACTAGCAAAGAAAAG
CAAAGAAGTATTCAGAAAAGAGATGTCCCAGTTCATCGTCCAGTGCCTGAACCCTTACCGGAAACCTGAC
TGCAAAGTGGGAAGAATTACCACAACTGAAGACTTTAAACATCTGGCTCGCAAGCTGACTCACGGTGTTA
TGAATAAGGAGCTGAAGTACTGTAAGAATCCTGAGGACCTGGAGTGCAATGAGAATGTGAAACACAAAAC
CAAGGAGTACATTAAGAAGTACATGCAGAAGTTTGGGGCTGTTTACAAACCCAAAGAGGACGCTGAATTA
GAGTGACTGTTGGGCCAGGGTGGGAGGATGGGTGGTCAGGTAAGACAGACTCTAGGGAGAGGAAATCCTG
TGGGCCTTTCTGTCCCACCCCTGTCAGCACTGTGCTACTGATGATACATCACCCTGGGGAATTCAACCCT
GCAGATGTCAACTGAAGGCCACAAAAATGAACTCCATCTACAAGTGATTACCTAGTTGTGAGCTGTTGGC
ATGTGGTTAGAAGCCATCAGAGGTGCAAGGGCTTAGAAAAGACCCTGGCCAGACCTGACTCCACTCTTAA
ACCTGGGTCTTCTCCTTGGCGGTGCTGTCAGCGCACAGACCCATGCGCATCCCCACCCACAACCCTTTAC
CCTGATGATCTGTATTATATTTTAATGTATATGTGAATATATTGAAAATAATTTGTTTTTTCCTGGTTTT
TGTTTGGTTTTCGTTTTGCTTTTAGCCTCTACATGCTAGGATCACAGGAAGACTTTGTAAGGACAGTTTA
AGTTCTCCTGCAAGGTTTAATTTGTTATCATGTAAATATTCCAAAGCAGGCTGCCTTGTGGTTTTGGCCA
GCCTTGTGCTATGTTGATAAGATTGATTTACTGCTTAAAATCACTTTACTTTATCCAATTTTTACTGAAC
TTTTTATGTAAAAAAATAAAATCAATTAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for AK026837 unedited
CATAATATGTAATACGACTCACTATAGGGCGGCCGCGAAATTCGCACCAGAGCAAACTCA
AAATAAAGAGAAAAGGAAACGAAGAAGCTCCCTCTCACCACCCTCTTCTGCCTATGAGCG
GGGAACAAAAAGGCCAGATGACAGATATGATACACCAACTTCTAAAAAGAAAGTACGAAT
TAAAGACCGCAATAAACTTTCTACAGAGGAACGCCGGAAGTTGTTTGAGCAAGAGGTGGC
TCAACGGGAGGCTCAGAAACAACAGCAACAGATGCAGAACCTGGGAATGACATCACCACT
GCCCTATGACTCTCTTGGTTATAATGCCCCGCATCATCCCTTTGCTGGTTACCCACCAGG
TTATCCCATGCAGGCCTATGTGGATCCCAGCAACCCTAATGCTGGAAAGGTGCTCCTGCC
CACACCCAGCATGGACCCAGTGTGTTCTCCTGCTCCTTATGATCATGCTCAGCCCTTGGT
GGGACATTCTACAGAACCCCTTTCTGCCCCTCCACCAGTACCAGTGGTGCCACATGTGGC
AGCTCCTGTGGAAGTTTCCAGTTCCCAGTATGTGGCCCAGAGTGATGGTGTAGTACACCA
AGACTCCAGCGTTGCTGTCTTGCCAGTGCCGGCCCCCGGCCCAGTTCAGGGACAGAATTA
TAGTGTTTGGGATTAAACCAACAGTCTGTCAGTGTACAGCAGCAGTACTCTCCTGCACAG
TCTCAAGCAACCATATATTATCAAGGACAGACATGTCCAACAGTCTATGGTGTGACATCA
CCCTATTCACAGACAACTCCACCATTGTACCAGAGTATGTCCAGCCCAGTCTTCATATAT
TCAGGGGCAACAGATTTTACAGCTCATCCACAGGAGTGTGGTACAGCAGCCCCACATTGA
CTACATAGTTGACCAGGGCAGCCTAACCTTGAACCTCTGAATGGTGGGACAAAATCTTCT
GAATTGCGCCCCTCTCCTCCAN

3' Read Nucleotide Sequence:

>OriGene 3' read for AK026837 unedited
GGAGACTCATGTACGTGGCCGCAATCNAGGATCGATTTTTTTTTTTTTTTTTTTTTTTT
TCTTTATTTGATTTTATTTTTTTACATAAAAAGTTCAGTAAAAATTGGATAAAGTAAAGT
GATTTTAAGCAGTAAATCAATCTTATCAACATAGCACAAGGCTGGCCAAAACCACAAGGC
AGCCTGCTTTGGAATATTTACATGATAACAAATTAAACCTTTTAGGAGAACTTAAACTGT
CCTTACAAAGTCTTCCTGTGATCCTAGCATGTAGAGGCTAAAAGCAAAACGAAAACCAAA
CAAAAACCAGGAAAAAACAAATTATTTTCAATATATTCACATATACATTAAAATATAATA
CAGATCATCAGGGTAAAGGGTTGTGGGTGGGGATGCCCATGGGTCTGTGCGCTGACAGCA
CCGCCCAGGAGAAGACCCAGGTTTAAAAATGGAGTCAGGTCTGGCCAGGGTCTTTTCTAA
GCCCTTGCACCTCTGATGGGTTCTAACCACATGCCAACAGCTCACAACTAGGTAATCACT
TGTAGATGGAGTTCATTTTTGTGGCCTTCAGTTGACATCTGCAGGGTTGAATTCCCCCAG
GTGATGTATCATCAGTAGCACACTGCTGACAGGGGTGGGACAGAAAGGCCCACAGGATTT
CCTCTCCCTAAAGGCTGTGTTACCTGAGCACCCATCCTCCCCCCCTGGGCCAACAGTCAC
TCTAATTCAGAGGCCTCTTTGGGGTTGTAAACAGCCCCCAACTTCTGGATGTACTTCTTA
AAGGACCCCCTTGGTTTTGGGGTCACAATCTCATTGGACTCCAGGGCCCCAAGGTTATTT
ACAGAACTTCAGCTCCTTTATCATAACCCCCGGAGTCAACTTGGGACCCAAAAGTTTT

Restriction Sites: NotI-NotI

ACCN: AK026837

Insert Size: 2300 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:	AK026837.1
RefSeq Size:	2095 bp
RefSeq ORF:	2095 bp
Locus ID:	29072
Cytogenetics:	3p21.31
Domains:	WW
Protein Families:	Druggable Genome
Protein Pathways:	Lysine degradation
Gene Summary:	Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein belonging to a class of huntingtin interacting proteins characterized by WW motifs. This protein is a histone methyltransferase that is specific for lysine-36 of histone H3, and methylation of this residue is associated with active chromatin. This protein also contains a novel transcriptional activation domain and has been found associated with hyperphosphorylated RNA polymerase II. [provided by RefSeq, Aug 2008]