

Product datasheet for SC118171

SPR (NM_003124) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPR (NM_003124) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPR
Synonyms:	SDR38C1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118171 sequence for NM_003124 edited (data generated by NextGen Sequencing)

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ATGGAGGGCGGGCTGGGGCGTGTGCTGTGCTTGCTGACCGGGGCTCCCGCGCTTCGGC
CGGACGCTGGCCCGCTCCTGGCCTCGCTGCTGTGCGCCGGCTCCGTGCTTGTCCTAGC
GCCCCGAACGACGAGGCACTGCGCCAGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGC
CTGCGCGTGGTGCGGGTGCCCGCCGACCTGGGCGCCGAGGCCGGCTTGACGAGCTGCTC
GGCGCCCTGCGCGAGCTCCCCGGCCCAAGGGGCTGCAGCGACTGCTGCTTATCAACAAC
GCGGGCTCTCTGGGGATGTGTCAAAGGCTTCGTGGACCTGAGTGACTCCACTCAAGTG
AACAACTACTGGGCACTGAACCTGACCTCCATGCTCTGCCTGACTCCAGCGTCTGAAG
GCCTTCCCGGACAGTCTGGCCTCAACAGAACCCTGGTTAACATCTCGTCCCTCTGTGCC
CTGCAACCTTTCAAAGGCTGGGCGTGTACTGTGCAGAAAGGCTGCTCGTGATATGCTG
TTCCAGGTCTGGCGCTGGAGGAACCTAATGTGAGGGTGTGAACATATGCCCCAGGTCT
CTGGACACAGACATGCAGCAGTTGGCCCGGAGACCTCCGTGGACCCAGACATGCGAAAA
GGGCTGCAGGAGCTGAAGGCAAAGGGGAAGCTGGTGGATTGCAAGGTGTCAGCCAGAAA
CTGCTGAGCTTACTGAAAAGGACGAGTTCAAGTCTGGAGCCACGTGGACTTCTATGAC
AAATAA

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Clone variation with respect to NM_003124.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003124 unedited AGTCAAACATTGTAACGACTCACTATAGGCGGCCGACATCGGCACGAGCCGCCGGCG GAGAACAGAGCATGGAGGGCGGGCTGGGGCGTGTGTGCTTGCTGACCGGGCCTCCC GCGGCTTCGGCCGGACGCTGGCCCCGCTCCTGGCCTCGTGTGTGCGCCGGCTCCGTGC TTGTCTTAGCGCCCGCAACGACGAGGCACTGCGCCAGCTGGAGGCCGAGCTGGGCGCCG AGCGGTCTGGCCTGCGCGTGGTGGGGTGCCCGCCGACCTGGGCGCCGAGGCCGGCTTGC AGCAGCTGCTCGGCGCCCTGCGCGAGCTCCCCGGCCCAAGGGGCTGCAGCGACTGCTGC TTATCAACAACGCGGGCTCTTTGGGGATGTGTCAAAGGCTTCGTGGACCTGAGTGACT CCTCAAGTGAACAACACTGAGGCACTGAACTTGACCTCCATGCTCTGCCTGACTTCCA GCGTCTGAAGGCCTTCCCGACAGTCTGGCCTCAACAGAACCCTGGTTAACATCTCGT CCCTCTGTGCCCTGCAACCTTTCAAAGGCTGGGCGCTGTACTGTGCAGGAAAGGCTGCTC GTGATATGCTGTTCCAGGCTCCTGGCGCTGGAGAACCTAATGTGAGGGTGTGAACTATG CCCCAGGCTCTGGACACAGACATGCAGCAGTTGGCCCGGAGACCTCCGTGGACCCAG ACATGCGAAAAGGCTGCAGGAGCTGAAGGCAAAGGGGAAGCTTGTGGATTGCAAGGTGT CAGCCCAGAACTGCTGAGCTTACTGAAAANGNACGAGTTCAAGTCTTGAGCCACGTGGAC TTCTATTGACAATAAGCCATGTTTTTNGCTTCTGACCTTTTTGCCCACTTTTAGACTA CCCAGAGCCCTGTGCTCCCCACACCTGCCTANGGGCAGTCTG
Restriction Sites:	NotI-NotI
ACCN:	NM_003124
Insert Size:	1500 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:	<ol style="list-style-type: none"> 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_003124.3 , NP_003115.1
RefSeq Size:	1438 bp
RefSeq ORF:	786 bp
Locus ID:	6697
UniProt ID:	P35270
Cytogenetics:	2p13.2
Domains:	adh_short
Protein Families:	Druggable Genome

Protein Pathways: Folate biosynthesis, Metabolic pathways

Gene Summary: This gene encodes an aldo-keto reductase that catalyzes the NADPH-dependent reduction of pteridine derivatives and is important in the biosynthesis of tetrahydrobiopterin (BH₄). Mutations in this gene result in DOPA-responsive dystonia due to sepiaterin reductase deficiency. A pseudogene has been identified on chromosome 1. [provided by RefSeq, Jul 2008]