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Product datasheet for SC109739

ROBO1 (NM_002941) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROBO1 (NM_002941) Human Untagged Clone
Tag:	Tag Free
Symbol:	ROBO1
Synonyms:	DUTT1; SAX3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_002941 edited
GAATTCGGCACGAGGCCCGACTTCACTCTCTCCCTATTTCCCCACTCTTAGGTTTAAAAG
TCTGTCACCTTTCGCTTGGTTTAAACTCGGAAAGGTCTCAGTGCACAGCAAAGTTGCAGG
GCTGCGTCTGCACTACGGAGCCTCTAGATTGCTGAAAACAGTCTTATGGAAGGATAACAC
ATTGTCTGTCACTGGCTGGTTGTAATGCAAGGAAGGGACAAAGATGAAATGGAAACATGT
TCCTTTTTTGGTCATGATATCACTCCTCAGCTTATCCCCAAATCACCTGTTTCTGGCCCA
GCTTATTCCAGACCCTGAAGATGTAGAGAGGGGGAACGACCACGGGACGCCAATCCCCAC
CTCTGATAACGATGACAATTCGCTGGGCTATACAGGCTCCCGTCTTCGTCAGGAAGATTT
TCCACCTCGCATTGTTGAACACCCTTCAGACCTGATTGTCTCAAAAGGAGAACCTGCAAC
TTTGAACTGCAAAGCTGAAGGCCGCCCCACACCCACTATTGAATGGTACAAAGGGGGAGA
GAGAGTGGAGACAGACAAAGATGACCCTCGCTCACACCGAATGTTGCTGCCGAGTGGATC
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TGCAGTAATGGAATGCCAACCTCCACGAGGCCATCCTGAGCCCACCATTTCATGGAAGAA
AGATGGCTCTCCACTGGATGATAAAGATGAAAGAATAACTATACGAGGAGGAAAGCTCAT
GATCACTTACACCCGTAAAAGTGACGCTGGCAAATATGTTTGTGTTGGTACCAATATGGT
TGGGGAACGTGAGAGTGAAGTAGCCGAGCTGACTGTCTTAGAGAGACCATCATTTGTGAA
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AGGTGACCCTGTACCTACAGTACGATGGAGGAAAGATGATGGAGAGCTGCCCAAATCCAG
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AGTCTCCCAGACTGGCGACCTCACAATTACTAATGTCCAGCGATCTGATGTTGGTTATTA
CATCTGCCAGACTTTAAATGTTGCTGGAAGCATCATCACAAAGGCATATTTGGAAGTTAC

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AGATGTGATTGCAGATCGGCCTCCCCCAGTTATTCGACAAGGTCCTGTGAATCAGACTGT
AGCCGTGGATGGCACTTTCGTCCTCAGCTGTGTGGCCACAGGCAGTCCAGTGCCCACCAT
TCTGTGGAGAAAGGATGGAGTCCTCGTTTCAACCCAAGACTCTCGAATCAAACAGTTGGA
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TTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCAAATATAGAAAGTTG
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AATCTCTAATAGAGGCATTACTTGCTTTCAATTGACAAATGATGCCCTCTGACTAGTAGA
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GAAGAAAAAAATGTACATTTATTCATAGATAGATAAGTATCAGGTCTGACCCCAGTGGAA
AACAAAGCCAAACAAAACTGAACCACAAAAAAAAAGGCTGGTGTTCACCAAAACCAAACT
TGTTCATTTAGATAATTTGAAAAAGTTCCATAGAAAAGGCGTGCAGTACTAAGGGAACAA
TCCATGTGATTAATGTTTTCATTATGTTCATGTAAGAAGCCCCTTATTTTTAGCCATAAT
TTTGCATACTGAAAATCCAATAATCAGAAAAGTAATTTTGTCACATTATTTATTAAAAAT
GTTCTCAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC

Restriction Sites: NotI-NotI

ACCN: NM_002941

Insert Size: 6900 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_002941.2.

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_002941.2, NP_002932.1
RefSeq Size:	6629 bp
RefSeq ORF:	4956 bp
Locus ID:	6091
UniProt ID:	Q9Y6N7
Cytogenetics:	3p12.3
Domains:	ig, IGv, IGc2, IG, FN3
Protein Families:	Druggable Genome
Protein Pathways:	Axon guidance
Gene Summary:	Bilateral symmetric nervous systems have special midline structures that establish a partition between the two mirror image halves. Some axons project toward and across the midline in response to long-range chemoattractants emanating from the midline. The product of this gene is a member of the immunoglobulin gene superfamily and encodes an integral membrane protein that functions in axon guidance and neuronal precursor cell migration. This receptor is activated by SLIT-family proteins, resulting in a repulsive effect on glioma cell guidance in the developing brain. A related gene is located at an adjacent region on chromosome 3. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009] Transcript Variant: This variant (1) encodes the longest isoform (a).