

Product datasheet for **SC338022**

ROBO2 (NM_001290039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROBO2 (NM_001290039) Human Untagged Clone
Tag:	Tag Free
Symbol:	ROBO2
Synonyms:	SAX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001290039, the custom clone sequence may differ by one or more nucleotides

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ATGAGTCTGCTGATGTTTACACAACACTGCTCTGTGGATTTTTATATGTTTCGGGTTGATGGATCGCGTC
TTCGCCAGGAGGACTTTCCCCCGCGGATTGTGGAGCATCCTTCCGATGTCATCGTCTCTAAGGGCGAGCC
CACGACTCTGAACTGCAAGGCGGAGGGCCGCAACGCCACCATTGAGTGGTACAAAGATGGGGAGCGA
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AAGAGCAACAATTCAAGAGCAAGGCACACTGCAGATTAAGAATTTACGGATTTCTGATACTGGCCTTAT
ACTTGTGTGGCTACAAGTTCAAGTGGAGAGACTTCTGGAGTGCAGTGTGGATGTGACAGAGTCTGGAG
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TACTAAGAACAGTGTACCTTGTCTGGCAGCCAGGTACCCCTGGAACCCCTCCAGCAAGTGCATATATC
 ATTGAGGCTTTCAGCCAATCAGTGAGCAACAGCTGGCAGACCGTGGCAAACCATGTAAGACCACCCTCT
 ATACTGTAAGAGGACTGCGGCCAATAACAATCTACTTATTCATGGTCAGAGCGATCAACCCCAAGGTCT
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 CACAGGCAAGTGCAGAAAGAGCTAGGAGATGTCCTTGTCCGTCTCATAATCCAGTTGTGCTGACTCCCA
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 CACAGATCTTGCATTC AACAGCATAACATGAATTGGCTGTCGATCTGCCTGATCCACAATGGAAAAGCTC
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 CTGATTTGAAAACGGATGTTGCAGATGATGATGCCGACGACGAAGAGGAAGCTTTAGAAAATCCCCAGGCC
 CCTGAGAGCACTGGACCAGACTCCTGGATCCAGCATGGACAATCTAGACAGCTCTGTGACAGGAAAAGCC
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 GTCAAAAGTCAGAGGCCTCGGCCACTAAAAACACAAGGGAGGGCGGATGGACCAACAACCAGCATTGCC
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 GAGCAGGCCACCAGCGCAATGCCAGCGACCTTCTTGACATAGGATATATGGGCTCCAACAGTCAAGGACA
 GTTTACAGGTGAATTATAG

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001290039
- 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:	<u>NM_001290039.1, NP_001276968.1</u>
RefSeq Size:	8701 bp
RefSeq ORF:	4149 bp
Locus ID:	6092
UniProt ID:	<u>Q9HCK4</u>
Cytogenetics:	3p12.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Axon guidance
Gene Summary:	<p>The protein encoded by this gene belongs to the ROBO family, part of the immunoglobulin superfamily of proteins that are highly conserved from fly to human. The encoded protein is a transmembrane receptor for the slit homolog 2 protein and functions in axon guidance and cell migration. Mutations in this gene are associated with vesicoureteral reflux, characterized by the backward flow of urine from the bladder into the ureters or the kidney. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 3' coding region compared to variant 4. The encoded protein (isoform 3) is shorter than variant 4. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>