

Product datasheet for **SC337452**

ROBO2 (NM_001290065) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROBO2 (NM_001290065) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001290065, the custom clone sequence may differ by one or more nucleotides

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ATGGTCAGAGCGATCAACCCCCAAGGTCTCAGTGACCCAAGTCCCATGTCAGATCCTGTGCGCACACAAG
ATATCAGCCCACCAGCACAAAGGAGTGGACCACAGGCAAGTGCAGAAAGAGCTAGGAGATGTCCTTGTC
TCTTCATAATCCAGTTGTGCTGACTCCCACCACGGTTCAGGTACATGGACGGTTGATCGCCAACCCAG
TTTATCCAAGGCTACCGAGTGATGATCGTCAGACTTCAGGTCTGCAGGGACATCTTCGTGGCAGAATT
TAGATGCCAAAGTCCCGACTGAACGAAGTGCTGTCTTAGTCAACCTGAAAAAGGGGTGACTTATGAAAT
TAAAGTACGGCCATATTTAATGAGTTCCAAGGAATGGATAGTGAATCTAAAACGGTTCGTACTIONTAA
GAAGCCCCAAGTCCCCACCACAGTCTGTCACTGTACTGACAGTTGGAAGCTACAATAGCACAAAGTATTA
GTGTTTCTGGGATCCTCCTCCTCCAGATCACCAGAATGGAATTATCCAAGAATACAAGATCTGGTGTCT
AGGAAATGAAACGCGATTCCATATCAACAAAAGTGGATGCAGCCATTCGGTCCGTAATAATTGGTGA
TTATCCAGGTATTCAATACCGGGTAGAGTTGCAGCTAGTACCAGTGCAGGGGTGGAGTAAAGAGTG
AGCCACAGCCAATAATAATCGGGAGACGCAATGAAGTTGTCATTACTGAAAACAATAACAGCATAACTGA
GCAATCACTGATGTGGTGAAGCAACCAGCCTTTATAGCTGGTATTGGTGGTGCCTGCTGGGTAATTCTG
ATGGGTTTTAGCATATGGTTGTATTGGCGAAGAAAGAAGGAAGGGACTCAGTAATTATGCTGTTACGT
TTCAAAGAGGAGATGGAGGACTAATGAGCAATGGAAGCCGTCCAGGTCTTCTCAATGCTGGTGTATCCAG
CTATCCATGGCTTGCTGATTCTTGGCCAGCCACGAGCTTGCCAGTAAATAATAGCAACAGTGGCCCAAT
GAGATTGGAATTTTGGCCGTGGAGATGTGCTGCCACCAGTTCAGGCCAAGGGGATAAAACAGCAACGA
TGCTCTCAGATGGAGCCATTTATAGTAGCATTGACTTCACTACCAAAAACAGTTACAACAGTTCAGCCA
AATAACACAGGCTACCCCATATGCCACGACACAGATCTTGCAATCCAACAGCATAACATGAATTGGTGT
GATCTGCCTGATCCACAATGAAAAGTCAATTCAGCAAAAACAGATCTGATGGGATTTGGTTATTCTC
TACCTGATCAGAACAAAGGTAACAATGGTGGGAAAGGTGAAAAAAGAAGAAAAATAAAACTCTTCTAA
ACCACAGAAAAAATGATCCACTTGGGCAATGTCCCTCTACCTCCCCCCCAGTCCAGCCCCTTCT
GGCACGGAGTGGAACTATGCAGTGGAAACAAGAAATGGCTATGACAGTGTAGCTGGTGGCCAC
CATTGCCAGTACAACTTACTTACACCAAGGTCTGGAAGATGAACTGGAAGAAGATGATGATAGGGTCCC
AACACCTCTGTTGAGGCGTGGCTTCTTCTCTGCTATCTCTTTGGACAGCAGTCCACTGCAACTCTT
ACTCCATCCCCACGGGAAGAGATGCAACCCATGCTGCAGGCTCACCTGGATGAGTTGACAAGAGCCTATC
AGTTTGATATAGCAAAAACAACATGGCACATTCAAAGCAATAATCAACCTCCACAGCCTCCAGTTCACC
GTTAGGTTATGTGTCTGGAGCCTTGATTCTGATTGGAAACGGATGTTGCAGATGATGATGCCAGCAG
GAAGAGGAAGCTTAGAAATCCCAGGCCCTGAGAGCACTGGACCAGACTCCTGGATCCAGCATGGACA
ATCTAGACAGCTCTGTGACAGGAAAAGCCTTTACCTCCTCTCAAAGACCTCGACCTACCAGCCCATTTTC
TACTGACAGTAACACCAGTGCAGCCCTGAGTCAAAGTCAGAGGCCTCGGCCCACTAAAAACACAAGGGA
GGGCGGATGGACCAACAACCAGCATTGCCTCATCGAAGGGAAGGAATGACAGATGAGGAGGCCTTGGTGC
CCTATAGCAAGCCAGTTTCCCATCTCCAGGTGGCCACAGCTCATCAGGAACAGCTTCTTCTAAGGGATC
CACTGGACCTAGGAAAACCGAGGTGTTGAGAGCAGGCCACCAGCGCAATGCCAGCGACCTTCTTGACATA
GGATATATGGGCTCCAACAGTCAAGGACAGTTTACAGGTGAATTATAG

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Restriction Sites: SgfI-MluI

ACCN: NM_001290065

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_001290065.1 , NP_001276994.1
RefSeq Size:	8828 bp
RefSeq ORF:	2358 bp
Locus ID:	6092
UniProt ID:	Q9HCK4
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 (5) has multiple differences compared to variant 4. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon compared to variant 4; the 5'-most initiation codon, as used in variant 4, is associated with a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the downstream AUG resulting in an isoform (5) with a shorter N-terminus compared to isoform 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>