

## Product datasheet for **SC338043**

### ROBO2 (NM\_001290040) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ROBO2 (NM_001290040) 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_001290040, the custom clone sequence may differ by one or more nucleotides

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ATGAGTCTGCTGATGTTTACACAACACTGCTCTGTGGATTTTTATATGTTTCGGGTTGATGGATCGCGTC
TTCGCCAGGAGGACTTTCCCCCGCGGATTGTGGAGCATCCTTCCGATGTCATCGTCTCTAAGGGCGAGCC
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TACTAAGAACAGTGTACCTTGTCTGGCAGCCAGGTACCCCTGGAACCCCTCCAGCAAGTGCATATATC  
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 TCTTCTAAGGGATCCACTGGACCTAGGAAAACCGAGGTGTTGAGAGCAGGCCACCAGCCAAATGCCAGCG  
 ACCTTCTTGACATAGGATATATGGGCTCCAACAGTCAAGGACAGTTTACAGGTGAATTA**TAG**

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001290040
- 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:** [NM\\_001290040.1](#), [NP\\_001276969.1](#)

**RefSeq Size:** 8884 bp

**RefSeq ORF:** 4332 bp

**Locus ID:** 6092

**UniProt ID:** [Q9HCK4](#)

**Cytogenetics:** 3p12.3

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Axon guidance

**Gene Summary:** 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]  
Transcript Variant: This variant (4) represents the longest transcript and encodes the longest 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.