

Product datasheet for **SC202642**

ROBO3 (NM_022370) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ROBO3 (NM_022370) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ROBO3
Synonyms:	HGPPS; HGPPS1; HGPS; RBIG1; RIG1
ACCN:	NM_022370
Insert Size:	251 bp
Insert Sequence:	>SC202642 3'UTR clone of NM_022370 The sequence shown below is from the reference sequence of NM_022370. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GGACAGAAACGCCGAGAGGAACCAAGATGACCCCTGTTGGGGCATTGAGAATATCATGAGTGCCACGGG GAAGGGGAGTAGGGATGTCTTTTCCCCCAGCAGTGATGAGTGGGGCTAGCTGAAGCCATTGGTTTC CACGATTTCAATTGGCTGAGAAGGCAGAGAGCTAGCTCCTCCCTTCTTTCTTTTCCACCTGAGACTT GTTTATAAAAAACAAAACAATAAAAAGAGTCTGATCAGAGCCCA ACGCGT AAGCGGCCGCGCATCTAGATTGGAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_022370.4</u>



[View online »](#)

Summary:

This gene is a member of the Roundabout (ROBO) gene family that controls neurite outgrowth, growth cone guidance, and axon fasciculation. ROBO proteins are a subfamily of the immunoglobulin transmembrane receptor superfamily. SLIT proteins 1-3, a family of secreted chemorepellants, are ligands for ROBO proteins and SLIT/ROBO interactions regulate myogenesis, leukocyte migration, kidney morphogenesis, angiogenesis, and vasculogenesis in addition to neurogenesis. This gene, ROBO3, has a putative extracellular domain with five immunoglobulin (Ig)-like loops and three fibronectin (Fn) type III motifs, a transmembrane segment, and a cytoplasmic tail with three conserved signaling motifs: CC0, CC2, and CC3 (CC for conserved cytoplasmic). Unlike other ROBO family members, ROBO3 lacks motif CC1. The ROBO3 gene regulates axonal navigation at the ventral midline of the neural tube. In mouse, loss of Robo3 results in a complete failure of commissural axons to cross the midline throughout the spinal cord and the hindbrain. Mutations ROBO3 result in horizontal gaze palsy with progressive scoliosis (HGPPS); an autosomal recessive disorder characterized by congenital absence of horizontal gaze, progressive scoliosis, and failure of the corticospinal and somatosensory axon tracts to cross the midline in the medulla. [provided by RefSeq, May 2019]

Locus ID:

64221

MW:

9.8