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SANTA CRUZ BIOTECHNOLOGY, INC.

LRIG3 siRNA (m): sc-149041

BACKGROUND

LRIG3 (leucine-rich repeats and immunoglobulin-like domains protein 3) is a 1,117 amino acid single-pass type I mouse membrane protein that contains 15 LRR (leucine-rich) repeats, 3 Ig-like C2-type (immunoglobulin-like) domains, one LRRCT domain and one LRRNT domain. The human homolog of LRIG3 is a 1,119 amino acid single-pass type I membrane protein that is also known as LRIG3 or LIG3. Existing as two alternatively spliced isoforms, human LRIG3 is a widely expressed protein encoded by a gene that maps to human chromosome 12q14.1. Encoding over 1,100 genes, chromosome 12 comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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4. Guo, D., et al. 2004. The LRIG gene family has three vertebrate paralogs widely expressed in human and mouse tissues and a homolog in *Ascidiacea*. Genomics 84: 157-165.
5. Forzano, F., et al. 2007. A familial case of achondrogenesis type II caused by a dominant COL2A1 mutation and "patchy" expression in the mosaic father. Am. J. Med. Genet. A 143A: 2815-2820.
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7. Lo, F.S., et al. 2009. High resolution melting analysis for mutation detection for PTPN11 gene: applications of this method for diagnosis of Noonan syndrome. Clin. Chim. Acta 409: 75-77.
8. Benussi, D.G., et al. 2009. Trisomy 12p and monosomy 4p: phenotype-genotype correlation. Genet. Test. Mol. Biomarkers 13: 199-204.

CHROMOSOMAL LOCATION

Genetic locus: Lrig3 (mouse) mapping to 10 D3.

PRODUCT

LRIG3 siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see LRIG3 shRNA Plasmid (m): sc-149041-SH and LRIG3 shRNA (m) Lentiviral Particles: sc-149041-V as alternate gene silencing products.

For independent verification of LRIG3 (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-149041A, sc-149041B and sc-149041C.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

LRIG3 siRNA (m) is recommended for the inhibition of LRIG3 expression in mouse cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 µM in 66 µl. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor LRIG3 gene expression knockdown using RT-PCR Primer: LRIG3 (m)-PR: sc-149041-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.