

Kua siRNA (m): sc-146610

BACKGROUND

Uev1A, also designated CROC1, Uev1 and UBE2V1 for ubiquitin-conjugating enzyme E2 variant 1, shows sequence similarity to other ubiquitin-conjugating enzymes, but lacks the conserved cysteine residue critical for their catalytic activity. Therefore, Uev1A does not have ubiquitin-conjugating activity, but it can regulate noncanonical elongation of ubiquitin chains. In humans, the Uev1A gene is adjacent to the Kua gene. These genes are either expressed as separate transcripts encoding independent Kua and UEV1 proteins or as a hybrid Kua-UEV transcript, therefore encoding a two-domain protein. Kua belongs to a class of conserved proteins with juxtamembrane histidine-rich motifs. Also designated transmembrane protein 189 (TMEM189), Kua is a 270 amino acid protein that localizes to the cytoplasm.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Tmem189 (mouse) mapping to 2 H3.

PROTOCOLS

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

PRODUCT

Kua siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Kua shRNA Plasmid (m): sc-146610-SH and Kua shRNA (m) Lentiviral Particles: sc-146610-V as alternate gene silencing products.

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 μ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNase-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

Kua siRNA (m) is recommended for the inhibition of Kua 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 μ M in 66 μ l. 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 Kua gene expression knockdown using RT-PCR Primer: Kua (m)-PR: sc-146610-PR (20 μ l). 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.