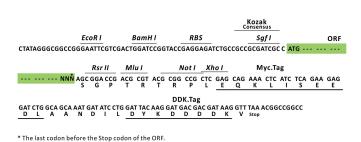


Product datasheet for RC211135L1

HSD17B1 (NM_000413) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B1 (NM_000413) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	HSD17B1
Synonyms:	17-beta-HSD; 20-alpha-HSD; E2DH; EDH17B2; EDHB17; HSD17; SDR28C1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211135).
Restriction Sites:	Sgfl-Rsrll
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Rsr II GCG ATC GC ATG // NNN AGC GGA CCG



ACCN: ORF Size: NM_000413 984 bp **OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn



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	SD17B1 (NM_000413) Human Tagged Lenti ORF Clone – RC211135L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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 Meth	 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:	<u>NM 000413.2</u>
RefSeq Size:	2248 bp
RefSeq ORF:	987 bp
Locus ID:	3292
UniProt ID:	<u>P14061</u>
Cytogenetics:	17q21.2
Domains:	adh_short
Protein Families:	Druggable Genome
Protein Pathways:	Androgen and estrogen metabolism, Metabolic pathways
MW:	35 kDa

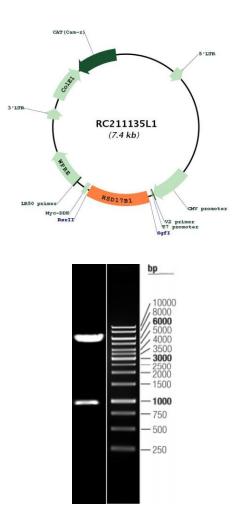
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Scherken Providence Processing Scherken Scherken

Gene Summary:

This gene encodes a member of the 17beta-hydroxysteroid dehydrogenase family of shortchain dehydrogenases/reductases. It has a dual function in estrogen activation and androgen inactivation and plays a major role in establishing the estrogen E2 concentration gradient between serum and peripheral tissues. The encoded protein catalyzes the last step in estrogen activation, using NADPH to convert estrogens E1 and E2 and androgens like 4androstenedione, to testosterone. It has an N-terminal short-chain dehydrogenase domain with a cofactor binding site, and a narrow, hydrophobic C-terminal domain with a steroid substrate binding site. This gene is expressed primarily in the placenta and ovarian granulosa cells, and to a lesser extent, in the endometrium, adipose tissue, and prostate. Polymorphisms in this gene have been linked to breast and prostate cancer. A pseudogene of this gene has been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC211135L1

Double digestion of RC211135L1 using Sgfl and Rsrll

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