

## Product datasheet for **LY300012**

### Desmin (DES) Mouse Knockdown Lysate

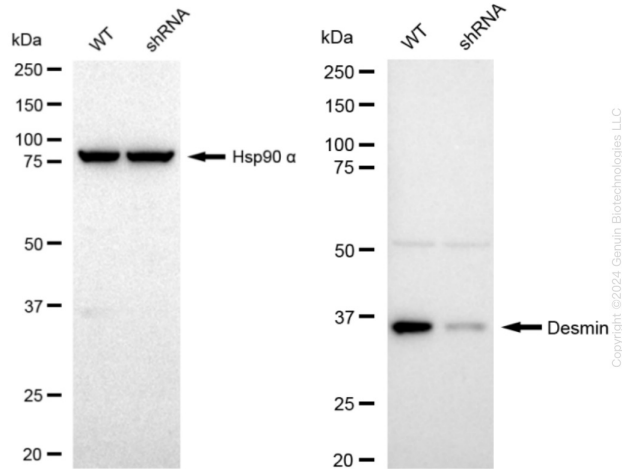
#### Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated DES Knockdown C2C12 Cell Lysate
Species:	Mouse
Tag:	Tag Free
Synonyms:	DES; Desmin; CSM1; CSM2; Intermediate Filament Protein; Cardiomyopathy, Dilated 1I; LGMD2R; CMD1I; Cardiomyopathy, Dilated 1F (Autosomal Dominant); Epididymis Secretory Sperm Binding Protein; LGMD1D; LGMD1E; CDCD3
Predicted MW:	54 kDa
Components:	1 vial of 100 ug WT C2C12 cell lysate 1 vial of 100 ug DES KD C2C12 cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	1674
UniProt ID:	<a href="#">P17661</a>
Protein Families:	Druggable Genome
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

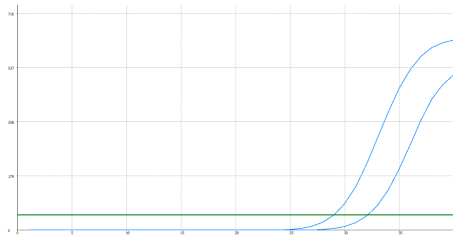


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## Product images:



Western blotting analysis. DES protein expression in wild-type (WT) and shRNA knockdown (KD) C2C12 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against DES and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.



Genotype	Ct Value
Wild-Type	28.80
Knock-Down	31.56
$\Delta Ct (Ct_{KD} - Ct_{WT})$	2.76
% mRNA Reduction	↓ 85%

RT-qPCR analysis. C2C12 cells were infected with DES-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta Ct (Ct_{KD} - Ct_{WT})$  was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1 - 1/2^{\Delta Ct}) \times 100\%$ .