

# **Product Data Sheet**

## CYB5D2 siRNA (Mouse)

Catalog # S	Source	Reactivity		Applications		
CRN1477 S	Synthetic	Μ		RNAi		
Description	siRNA	to inhibit CYB5D2 ex	pression using	RNA interference		
Specificity	CYB5D	CYB5D2 siRNA (Mouse) is a target-specific 19-23 nt siRNA oligo duplexes designed to				
	knock	down gene expressio	on.			
Form	Lyophi	ophilized powder				
Gene Symbol	CYB5D	D2				
Alternative Nam	nes Neufer	Neuferricin; Cytochrome b5 domain-containing protein 2				
Entrez Gene	19298	6 (Mouse)				
SwissProt Q5SSH		25SSH8 (Mouse)				
Purity	> 97%					
Quality Control	lity Control Oligonucleotide synthesis is monitored base by base through trityl analysis to			rityl analysis to ensure		
	approp	priate coupling efficie	ency. The oligo	is subsequently puri	fied by affinity-solid	
	phase	phase extraction. The annealed RNA duplex is further analyzed by mass				
	spectro	spectrometry to verify the exact composition of the duplex. Each lot is compared to				
	the pre	evious lot by mass sp	ectrometry to	ensure maximum lot	-to-lot consistency.	
Components	We off	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of				
	mouse	mouse CYB5D2 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes				
	can be	can be transfected individually or pooled together to achieve knockdown of the				
	target	target gene, which is most commonly assessed by qPCR or western blot.				
	Comp	oonent		15 nmol	30 nmol	
	CYB5I	D2 siRNA (Mouse) - A	A	5 nmol x 1	5 nmol x 2	
	CYB5I	D2 siRNA (Mouse) - E	3	5 nmol x 1	5 nmol x 2	
Alternative Nam Entrez Gene SwissProt Purity Quality Control	Neufer 192980 Q5SSH > 97% Oligon approp phase spectro the pro We off mouse can be target Comp	rricin; Cytochrome b 6 (Mouse) 8 (Mouse) ucleotide synthesis is oriate coupling efficie extraction. The anne ometry to verify the evious lot by mass sp fers pre-designed set c CYB5D2 gene. Each transfected individu gene, which is most <b>conent</b> D2 siRNA (Mouse) - A	s monitored b ency. The oligo aled RNA dup exact composi ectrometry to s of 3 differen vial contains 5 ally or pooled commonly ass	ase by base through t o is subsequently purifilex is further analyzed ition of the duplex. Ea o ensure maximum lot t target-specific siRNA 5 nmol of lyophilized s together to achieve k sessed by qPCR or wes <b>15 nmol</b> 5 nmol x 1	fied by affinity-solid d by mass ich lot is compared t -to-lot consistency. A oligo duplexes of iRNA. The duplexes mockdown of the stern blot. <b>30 nmol</b> 5 nmol x 2	

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC-Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb-Rabbit, S- Sheep, Z- Zebrafish

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C	YB5D2 siRNA (Mouse) - C	5 nmol x 1	5 nmol x 2
Ν	egative Control	2.5 nmol x 1	2.5 nmol x 2
D	EPC Water	1 ml x 1	1 ml x 2

**Directions for Use** 

We recommends transfection with 10 nM - 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For example, resuspend one tube of 5 nmol siRNA oligo in 250  $\mu$ l of DEPC water to get a final concentration of 20  $\mu$ M.

Plate	Final volume	Final concentration	siRNA (20 μM)	Lipofectamin
	of medium	of siRNA		2000
		100 nM	0.5 μl	0.25 μl
96-well	100 μl	50 nM	0.25 μl	0.25 μl
		10 nM	0.05 μl	0.25 μl
		100 nM	2.5 μl	1 µl
24-well	500 μl	50 nM	1.25 μl	1 µl
		10 nM	0.25 μl	1 µl
		100 nM	5 µl	2 µl
12-well	1 ml	50 nM	2.5 μl	2 µl
		10 nM	0.5 μl	2 µl
6-well	2 ml	100 nM	10 µl	5 µl
		50 nM	5 μΙ	5 μl
		10 nM	1 µl	5 μl

#### Storage/Stability

Shipped at 4 °C. Store at -20 °C for one year.

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