

## Product Certificate



<b>Product Name:</b>	DriverMap™ Mouse Targeted Panel (24 multiplex)		
<b>Catalog #:</b>	DMF-MPLH-24		
<b>Size:</b>	For 24 samples		
<b>Shipment Contents:</b>	RT-PCR-NGS Reagents (BOX 1 of 2)	— Store at -20°C	
	Index Primers (BOX 2 of 2)	— Store at -20°C	
<b>Shipping Conditions:</b>	Blue Ice		
<b>Shelf Life:</b>	6 months from date of receipt		

### Product Details:

The DriverMap™ Mouse Targeted Panel measures the expression level of 4,753 mouse protein-coding genes by combining highly multiplexed RT-PCR amplification with the depth and precision of Next-Generation Sequencing (NGS) quantitation.

The kit provides enough reagents for the preparation of 24 NGS probes starting from total RNA from blood, tissue, cells, or other biological samples, plus 2 reactions with Positive Control RNA.

### RT-PCR-NGS Reagents (BOX 1 of 2) — Store at -20°C

Box 1 Component	Description	Cap Color	Concentration	Volume
Positive Control RNA	Total RNA from multiple cell lines, 50 ng/μl	white	10X	5 μl
ERCC Control RNA	Synthetic ERCC RNA controls at different molar ratios	silver	10X	30 μl
Random Primers	Random primer mix for cDNA synthesis, 50 μM	yellow	10X	30 μl
PCR-Grade Water	RNase/DNase-free water for reaction mixes	white	NA	3 ml
dNTP Mix	Mix of dATP, dGTP, dCTP and dTTP, 10 mM each	white	20X-50X	95 μl
RT Buffer	Buffer for cDNA Synthesis	green	5X	200 μl
Reverse Transcriptase	Multiplex-optimized M-MLV Reverse Transcriptase, 200 U/μl	green	20X	15 μl
PCR Buffer	Reaction Buffer for 1 <sup>st</sup> and 2 <sup>nd</sup> PCR steps	red	5X	650 μl
DNA Polymerase	Multiplex-optimized thermostable DNA polymerase, 2 U/μl	red	100X	45 μl
Forward GS Primer Pool	Mix of 4700+ Mouse Forward Gene-Specific Primers	highlight yellow	10X	60 μl
Reverse GS Primer Pool	Mix of 4700+ Mouse Reverse Gene-Specific Primers	highlight yellow	10X	85 μl
Primer Removal Enzyme	Enzyme Mix for primer removal	orange	150X	15 μl
Anchor Primer Mix	Forward/Reverse Primers for 1st PCR, 2.5 mM each	yellow	10X	280 μl
Forward SeqDNA NGS Primer	Forward NGS Primer for cDNA sequencing	blue	100 μM	30 μl
Reverse SeqDNA NGS Primer	Reverse NGS Primer for cDNA sequencing	blue	100 μM	30 μl



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Forward SeqIND NGS Primer	Forward NGS Primer for Index sequencing	blue	100 µM	30 µl
Reverse SeqIND NGS Primer	Reverse NGS Primer for Index sequencing	blue	100 µM	30 µl

**Index Primers (BOX 2 of 2)** — Store at -20°C

Box 2 Component	Description	Cap Color	Concentration	Volume
Forward & Reverse Index Primer Set	Forward / Reverse Primers 2nd PCR with indexes for sequencing in a 96-well plate	NA	NA	primers dried in wells

### Quality Control

Each of the following lots of the DriverMap™ Mouse Targeted Panel have been tested for functionality using control RNA using the protocol in the User Manual.

**Lot #s:** 190523023

### Appendix 1. Housekeeping Control Genes

Below is the list of housekeeping genes we recommend using for normalization analysis of Mouse DriverMap Assays, as described in the **Data Processing and Analysis** section of the User Manual.

Symbol	RefSeq	Description	UniGene	Entrez
Actb	NM_007393	Actin, beta	Mm.328431	11461
Gapdh	NM_008084	Glyceraldehyde-3-phosphate dehydrogenase	Mm.343110	14433
Gusb	NM_010368	Glucuronidase, beta	Mm.3317	110006
Hsp90ab1	NM_008302	Heat shock protein 90 alpha (cytosolic), class B member 1	Mm.2180	15516
Ldha	NM_010699	Lactate dehydrogenase A	Mm.29324	16828
Ppih	NM_028677	Peptidyl prolyl isomerase H	Mm.371613	66101
Sdha	NM_023281	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	Mm.158231	66945
Tbp	NM_013684	TATA box binding protein	Mm.244820	21374
Tfrc	NM_011638	Transferrin receptor	Mm.28683	22042

### Additional Product Information can be found on the Collecta Website

General Description: <https://www.collecta.com/targeted-expression-profiling-driver-map-kit/>  
 User Manual: <https://www.collecta.com/manuals/drivermap-human-genome-wide-gene-expression-profiling-kit-version-2/>

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