molecular biology GENESPIN DATA SHEET

> 2X Quantitative Master Mix with SYBR® Green high ROX

2X Quantitative Master Mix SYBR Green, is a 2X premixed, ready-to-use solution (Genespin proprietary formulation) containing Xtra Taq Pol, dNTPs, MgCl2 and stabilizers optimized for use in real time PCR amplification.
2X Quantitative Master Mix SYBR Green contains ROX for dynamic well factor collection. The addiction of ROX has no effect on the PCR reaction efficiency or sensitivity of detection.

cat. no.	*amount*	*note*
QSTS-RSMMix200	5ml	2X conc.
QSTS-RSMMix500	12.5ml	2X conc.
QSTS-RSMMix1000	25ml	2X conc.

FOR RESEARCH USE ONLY

SHIPPING
Shipped in green ice.

STORAGE
Store at -20C°
avoid freeze/thaw cycles, store dark
Storage at 4 °C for up to 3 months possible.

SHELF LIFE
12 months

FORM
liquid

CONCENTRATION
2X

DATA SHEET

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Assay Set-Up:
Before starting, vortex all components thoroughly to ensure homogeneity.
Prepare a premix for the number of assays you need according to the following protocol:

component	*stock conc.*	*final conc.*	*20ul reaction*	*50ul reaction*
2X Master Mix	2X	1X	10.0ul	25.0ul
primer for	10uM	100-400 nM	0.2 - 0.8 ul	0.5 - 2.0 ul
primer rev	10uM	100-400 nM	0.2 - 0.8 ul	0.5 - 2.0 ul
DNA Template	-	-	< 500ng	< 500ng
MG Water	-	-	up to 20ul	up to 50ul

Cycling conditions:
Spin down the tubes/plate briefly to remove bubbles
and place them into the cycler.

denaturation	95°C	5 min	1x
denaturation	95°C	10 sec	20-35x
annealing (1) and extension	55-68°C	30 sec	
melt curve	from 65°C to 95°C	0.5°C/5sec	1x

1)The annealing temperature depends on the melting temperature of the primers used.
2)The elongation time depends on the length of the fragments to be amplified. A time of 1 min/kb is recommended.