VSC4.1

305887

GENERAL INFORMATION

Description

VSC4.1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ N18TG2 □□□ □□□□□□□□□□□□□□VSC4.1 □□
□□□□□□□□□□VSC4.1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ChAT□□ □□□VSC4.1 □□
VSC4.1 □□□ □□□□□□□□□□□□□□□□ALS□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ SOD1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ VSC4.1 □□

Tissue	□□□□□□□□□□
Disease	□□□□□□□□□□□□□□□□□ × □□ N18TG2 □□□□□□□□□□□□□□□□□□□□□□
Metastatic site	□□□□□□□□□□□□□□□□□□□□□□□□

Applications

□□□□□□□□□□□□□□□□□□□□□□ALS□□□□□□□□□□□MND□□□□□□□□□□□□□□□□□□□□□□□□□□SOD1 □□□□□□□□□ChAT□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

CLASSIFICATION

Organism	Rat
Growth properties	Adherent
GMO status	Non-GMO

GMO status details

No genetic modification; somatic cell fusion hybrid (rat spinal cord neurons × N18TG2 neuroblastoma). No introduced transgene.

Biosafety level	1

CHARACTERISTICS

Morphology	□□□□□□□□□□□□□
Cell type	□□□□□□□□□
Doubling time	□ 24 □ 36 □□

IDENTIFIERS

Citation

VSC4.1□Cytion □□ 305887□

NCBI TaxID	10116
Cellosaurus	CVCL_D630

HANDLING AND CULTURE

Culture medium

DMEM□□ 4.5 g/L □□□□4 mM L-□□□□□3.7 g/L $NaHCO_3$ □ 1.0 mM □□□□□Cytion □□□□ 820300a□

Incubation atmosphere	37°C□5% CO_2□□□□□□

Supplements

□□□□□□□ 10% □□□□□□FBS□

Dissociation reagent	Accutase
Split ratio	1 □ 3□□□□□□□□□□□□□ 1:6 □ 1:8□
Seeding density	1 □ 3 × 10^4 □□□/cm^2
Fluid renewal	□□ 2 □ 3 □

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium.
Follow the procedure described under Post-Thaw Recovery

QUALITY CONTROL AND CRYOPRESERVATION

Freeze medium	□□□□□□□□□□□□□□□□□□□□□□□□□□ 10% □□□□□□□DMSO□□□□□□□□□□□□□□□□□□□□□□□□□

Storage conditions

□□□□□□□□□□□□□□□□□□ −150 □ −196 °C □□□□□□□□□□□□□□□□□□□□□□□□□□ −80 °C □□□□□□□□□□□□□□□

Shipping conditions

□□ −78 °C□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Ethnicity	□□□□□□×□□□□□□□□

LEGAL AND SAFETY

Safety precautions

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□

Warranty

□ Cytion□□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□□□□□
60 □□□□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□□
□□□□□□□□□□□□□□□□□□□□
□□□□□□□□
□□□□□□□

Material Transfer Agreement required	Yes

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB