

**SW620-Luc Cells | 305704****General information**

<b>Organism</b>	Human
<b>Tissue</b>	Metastatic
<b>Disease</b>	Colon adenocarcinoma
<b>Metastatic site</b>	Lymph node
<b>Synonyms</b>	SW620, SW 620, SW.620

**Characteristics**

<b>Age</b>	51 years
<b>Gender</b>	Male
<b>Ethnicity</b>	Caucasian
<b>Morphology</b>	Epithelial-like
<b>Growth properties</b>	Adherent

**Regulatory Data**

<b>Citation</b>	SW620-Luc (Cytion catalog number 305704)
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_J268
<b>GMO Status</b>	GMO-S1: This SW-620 line also contains a-Luc cassette enabling bioluminescent monitoring of metastatic progression. This classification applies only within Germany and may differ elsewhere.

**Biomolecular Data**

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<b>Protein expression</b>	Luc
<b>Tumorigenic</b>	Yes, in athymic nude mice
<b>Mutational profile</b>	Mutation: p.Gln1338Ter, Homozygous; Mutation: p.Gly12Val, Homozygous; Mutation: p.Arg273His, Heterozygous; Mutation: p.Pro309Ser, Heterozygous

**Handling**

<b>Culture Medium</b>	DMEM
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**Freeze medium** As a cryopreservation medium, we use complete growth medium + 10% DMSO for adequate post-thaw viability.

<b>Thawing and Culturing Cells</b>	<ol style="list-style-type: none"> <li>1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.</li> <li>2. 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.</li> <li>3. 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.</li> <li>4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.</li> <li>5. 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.</li> <li>6. Centrifuge the mixture at 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium.</li> <li>7. Follow the procedure described under Post-Thaw Recovery</li> </ol>
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**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified atmosphere.

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### Shipping Conditions

Cryopreserved cell lines are shipped on dry ice in validated, insulated packaging with sufficient refrigerant to maintain approximately  $-78^{\circ}\text{C}$  throughout transit. On receipt, inspect the container immediately and transfer vials without delay to appropriate storage.

### Storage Conditions

For long-term preservation, place vials in vapor-phase liquid nitrogen at about  $-150$  to  $-196^{\circ}\text{C}$ . Storage at  $-80^{\circ}\text{C}$  is acceptable only as a short interim step before transfer to liquid nitrogen.

## Quality Control & Molecular Analysis