

Materials List for:

# Transposon Mediated Integration of Plasmid DNA into the Subventricular Zone of Neonatal Mice to Generate Novel Models of Glioblastoma

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## Materials

| Name   | Company                      | Catalog Number | Comments   |
|--|------------------------------|----------------|--|
| Stoelting's Lab Standard with Rat and Mouse Adaptors | Stoelting                    | 51670          | Other companies produce similar frames, any of them with small mouse adaptors are suitable   |
| Quintessential Stereotaxic Injector (QSI)            | Stoelting                    | 53311          | Injections can be made without it, but the automatic injector allows for increased reproducibility and convenience   |
| 10 µl 700 series hand fitted MICROLITER syringe      | Hamilton                     | Model 701      | This syringe model will deliver from 0.5 to 500 µl of solution reliably. Other syringes (for example 5 µl, Model 75) may also be used  |
| 30 gauge hypodermic needle (1.25", 15° bevel)        | Hamilton                     | S/O# 197462    | This needle is ideal to pierce the skin and the skull of a neonatal mouse without the need of other invasive procedures. If it gets dull (doesn't easily enter the skin), it needs to be replaced. |
| in vivo-jetPEI                                       | Polyplus Transfection        | 201-10G        | Aliquot in small volumes and keep at -20 °C  |
| D-Luciferin, Potassium Salt                          | Goldbio.com                  | LuckK-1g       | Other sources of firefly luciferase are just as adequate   |
| Hematoxylin Solution, Harris Modified                | Sigma Aldrich                | HHS128-4L      |  |
| Tissue-Tek O.C.T. Compound                           | Electron Microscopy Sciences | 62550-01       | For embedding brains for cryosectioning and immunohistochemistry   |
| Advanced DMEM/F-12, no glutamine                     | Life Technologies            | 12634-010      | For the culture of neurospheres  |
| B-27" Supplement (50X), serum free                   | Life Technologies            | 17504-044      | Serum free supplement for the culture of neurospheres  |
| N2 Supplement (100x)                                 | Life Technologies            | 17502-048      | Serum free supplement for the culture of neurospheres  |
| Normocyn   | InvivoGen                    | ant-nr-1       | Anti-mycoplasma agent for the culture of neurospheres  |
| Recombinant Human EGF                                | PEPROTECH                    | AF-100-15      | Growth factor supplement for the culture of neurospheres   |
| Recombinant Human FGF-basic                          | PEPROTECH                    | 100-18B        | Growth factor supplement for the culture of neurospheres   |

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| HyClone HyQTase Cell Detachment Reagent              | Thermo Scientific | SV3003001    | For the dissociation of neurospheres                               |
| Kimble-Chase Kontes Pellet Pestle                    | Fisher Scientific | K749510-0590 | For the dissociation of freshly dissected tumors                   |
| Falcon Cell Strainers mesh size 70 um                | Fisher Scientific | 08-771-2     | For generating single cell suspensions of dissociated neurospheres |
| Xylenes Histological grade                           | Fisher Scientific | C8H10        |  |
| Protocol Harris Hematoxylin Mercury free (acidified) | Fisher Scientific | 245-678      |  |
| Protocol Eosyn Y Solution (intensified)              | Fisher Scientific | 314-631      |  |