|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *TP53+/+* | *TP53153* | *TP53C176F* | *TP53Y220C* |
| **Inhibits** *kRASG12D/tp53-/-* mediated **ERMS tumor initiation?** | Yes (by 50%) | No change | YES (by 20%) | YES (by 20%) |
| **Promotes head localization** of *kRASG12D/tp53-/-*ERMS tumors? | NO | YES | NO | YES |
| **Decreases tumor-cell proliferation** in *kRASG12D/tp53-/-*? | YES | YES | YES | YES |
| **Increases tumor-cell apoptosis** in *kRASG12D/tp53-/-* ? | YES | NO | YES | YES |
| **Has transactivation abilities** (*p21/cdkn1a*) | - | NO | NO | NO |
| **Has transactivation abilities** (*bbc3/puma*) | - | YES | YES | NO |
| **Has transactivation abilities** (*gadd45a*) | - | NO | NO | YES |