|  |  |  |
| --- | --- | --- |
| **A) The research CRC gene panel**  |  | **B) The clinical CRC gene panel**  |
| **Gene**  | **NM nr.**  |  | **Gene**  | **NM nr.**  |
| *APC* | NM\_000038 |  | *APC* | NM\_000038 |
| *AXIN2* | NM\_004655 |  | *AXIN* | NM\_004655 |
| *BLM* | NM\_000057 |  | *BMPR1A* | NM\_004329 |
| *BMPR1A* | NM\_004329 |  | *EPCAM*  | NM\_002354 |
| *BRCA1* | NM\_007294 |  | *GREM1* | NM\_013372 |
| *BRCA2* | NM\_000059 |  | *MLH1* | NM\_000249 |
| *BUB1* | NM\_004336 |  | *MSH2* | NM\_000251 |
| *CDH1*  | NM\_004360 |  | *MSH3* | NM\_002439 |
| *CHEK2* | NM\_007194 |  | *MSH6* | NM\_000179 |
| *EPCAM* | NM\_002354 |  | *MUTYH* | NM\_012222 |
| *EXO1* | NM\_006027 |  | *NTHL1* | NM\_002528 |
| *FAN1* | NM\_014967 |  | *PMS2* | NM\_000535 |
| *FOCAD* | NM\_017794 |  | *POLD1* | NM\_002691 |
| *GALNT12* | NM\_024642 |  | *POLE* | NM\_006231 |
| *GREM1* | NM\_013372 |  | *PTEN* | NM\_000314 |
| *IPMK* | NM\_152230 |  | *SMAD4* | NM\_005359 |
| *MLH1* | NM\_000249 |  | *STK11* | NM\_000455 |
| *MLH3* | NM\_014381 |  |  |  |
| *MSH2* | NM\_000251 |  |  |  |
| *MSH3* | NM\_002439 |  |  |  |
| *MSH6* | NM\_000179 |  |  |  |
| *MUTYH* | NM\_012222 |  |  |  |
| *NTHL1* | NM\_002528 |  |  |  |
| *PMS1* | NM\_000534 |  |  |  |
| *PMS2* | NM\_000535 |  |  |  |
| *POLD1* | NM\_002691 |  |  |  |
| *POLE* | NM\_006231 |  |  |  |
| *PTEN* | NM\_000314 |  |  |  |
| *RINT1* | NM\_021930 |  |  |  |
| *RPS20* | NM\_001146227 |  |  |  |
| *SMAD4* | NM\_005359 |  |  |  |
| *SMAD9* | NM\_001127217 |  |  |  |
| *STK11* | NM\_000455 |  |  |  |
| *TP53* | NM\_000546 |  |  |  |