

PANEL NMG12
RAS-MAPK pathway

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| PTPN11 | Noonan syndrome 1/ Leopard syndrome 1 |
| RAF1 | Noonan syndrome 5/ Leopard syndrome 2 |
| SOS1 | Noonan syndrome 4 |
| KRAS | Noonan syndrome 3 |
| NRAS | Noonan syndrome 6 |
| HRAS | Costello syndrome |
| BRAF | Noonan syndrome 7/ Leopard syndrome 3 |
| SHOC2 | Noonan-like syndrome with loose anagen hair |
| CBL | Noonan syndrome-like disorder with or without juvenile myelomonocytic |
| RIT1 | Noonan syndrome 8 |
| CREBBP | Rubinstein-Taybi syndrome |
| SRCAP | Floating-Harbor syndrome |
| EP300 | Rubinstein-Taybi syndrome 2 |