

| Pfam domain | Number of cancer proteins with domain | Dominant versus recessive | | | Germine versus somatic | | | Cell type | | | Translocation versus no translocation | |
|----------------|---------------------------------------|---------------------------|-----------|---------|------------------------|------------|--------------------|-------------|-------|---------------|---------------------------------------|--|
| | | Dominant | Recessive | Germine | Somatic | Epithelial | Leukaemia/lymphoma | Mesenchymal | Other | Translocation | No translocation | |
| Pkinase | 27 | 24 | 3 | 5 | 22 | 13 | 11 | 6 | 5 | 11 | 16 | |
| HLH | 12 | 12 | 0 | 0 | 12 | 4 | 7 | 2 | 1 | 9 | 3 | |
| Homeobox | 13 | 13 | 0 | 0 | 13 | 0 | 11 | 2 | 0 | 13 | 0 | |
| Ets | 6 | 6 | 0 | 0 | 6 | 1 | 1 | 6 | 0 | 6 | 0 | |
| PAX | 4 | 4 | 0 | 0 | 4 | 1 | 1 | 2 | 0 | 4 | 0 | |
| PHD | 8 | 8 | 0 | 0 | 8 | 1 | 7 | 0 | 0 | 8 | 0 | |
| DNA_mis_repair | 3 | 0 | 3 | 3 | 0 | 3 | 0 | 0 | 1 | 0 | 3 | |
| HATPase_c | 5 | 2 | 3 | 3 | 2 | 3 | 2 | 0 | 1 | 2 | 3 | |
| Myc_N_term | 3 | 3 | 0 | 0 | 3 | 2 | 1 | 0 | 1 | 0 | 3 | |
| AF-4 | 3 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 0 | |
| Bromodomain | 5 | 4 | 1 | 0 | 5 | 3 | 3 | 0 | 0 | 5 | 0 | |
| DUF902 | 2 | 1 | 1 | 0 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | |
| KIX | 2 | 1 | 1 | 0 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | |
| SH2 | 7 | 7 | 0 | 0 | 7 | 0 | 5 | 2 | 0 | 6 | 1 | |
| PWWP | 4 | 3 | 1 | 1 | 3 | 1 | 3 | 0 | 0 | 3 | 1 | |
| DUF906 | 2 | 1 | 1 | 0 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | |
| HRDC | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 1 | 1 | 0 | 2 | |
| zf-TAZ | 2 | 1 | 1 | 0 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | |
| ETS_PEA3_N | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | |
| SAM_PNT | 3 | 3 | 0 | 0 | 3 | 1 | 1 | 3 | 0 | 3 | 0 | |
| Muts_I | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | |
| Exostoin | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | |
| SSXT | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | |
| Nucleopotin_FG | 2 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | |
| Muts_II | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | |
| SH3 | 9 | 9 | 0 | 0 | 9 | 0 | 8 | 1 | 0 | 9 | 0 | |
| GTP_CDC | 3 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 0 | |
| DEAD | 5 | 2 | 3 | 3 | 2 | 2 | 4 | 2 | 1 | 2 | 3 | |
| ERM | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | |
| YEATS | 2 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | |
| HSP90 | 2 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | |
| Muts_IV | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | |
| AT_hook | 3 | 3 | 0 | 0 | 3 | 0 | 1 | 2 | 0 | 3 | 0 | |
| Helicase_C | 6 | 2 | 4 | 4 | 2 | 3 | 4 | 2 | 1 | 2 | 4 | |
| Muts_III | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | |
| Recep_L_domain | 2 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 2 | |

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|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MoCF_biosynth | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| FYRC | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| HhH-GPD | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| pkID | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| L_LWEQ | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| Glypican | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| notch | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| GATase | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| PBX | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| TFR_dimer | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| BCL_N | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| PAS | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 0 |
| zf-B_box | 3 | 3 | 0 | 0 | 3 | 3 | 1 | 2 | 2 | 0 | 0 | 0 | 3 | 3 | 0 |
| fer2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| XPg_N | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Patched | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| RBD | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| FAT | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| Clathrin | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| ras | 4 | 4 | 0 | 0 | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 2 | 1 | 1 | 3 |
| 3_5_exonuclease | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| DIL | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| MH2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| BTK | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Anti_proliferat | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| myosin_head | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 0 |
| NAC | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| HHH | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| FATC | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| Peptidase_M28 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| WH1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Nebulin | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| UBA | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 0 |
| SET | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 0 |
| IRF | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| PDGF | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |
| Rlia | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| BIR | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| RHD | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Activin_recp | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

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|-----------------|----|----|---|---|---|----|---|---|---|---|---|---|---|---|---|---|
| ZF-C3HC4 | 5 | 4 | 1 | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 0 | 0 | 4 | 1 | 0 |
| cyclin_C | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| Fizzled | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| OAR | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| MH1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Peptidase_C14 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| Rap_GAP | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| CAP_GLY | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ig | 11 | 11 | 0 | 0 | 1 | 10 | 3 | 7 | 4 | 2 | 5 | 6 | | | | |
| RasGAP | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| NAP | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| GATA | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| WD40 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| COLF1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| DAG_PE-bind | 2 | 2 | 0 | 0 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| ZF-OXXC | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| BTB | 3 | 3 | 0 | 0 | 0 | 3 | 0 | 2 | 1 | 0 | 2 | 1 | 0 | 2 | 1 | 1 |
| Bcl-2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| PB1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| UBX | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| MAM | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| NACHT | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| WH2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| PA | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| RhoGEF | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| FCH | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| LRRCT | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 |
| NLUDIX | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Cadherin_C_term | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| TNFR_g6 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| PBD | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| LRR | 4 | 4 | 0 | 0 | 1 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 1 |
| PSI | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| PI3_P14_kinase | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| G-alpha | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| BRCT | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Fz | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| SAP | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| IQ | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| cyclin | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |

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|---------------------|------------|------------|-----------|-----------|------------|------------|------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| cNMP_binding | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| AMIP_binding | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| rnm | 4 | 4 | 0 | 0 | 0 | 4 | 1 | 2 | 3 | 0 | 0 | 4 | 0 | 0 | 0 |
| kazal | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Sema | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| zf-C2H2 | 10 | 8 | 2 | 2 | 1 | 9 | 1 | 7 | 1 | 1 | 2 | 7 | 3 | 3 | 3 |
| RA | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| pklnase_C | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| EGF | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| histone | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| bZIP | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| LRRNT | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| Y_phosphatase | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| cadherin | 2 | 1 | 1 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 |
| ank | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| HMG_box | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| WW | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| UCH | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| CH | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| PDZ | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| PH | 3 | 3 | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 0 | 0 | 2 | 1 | 1 | 1 |
| C2 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Collagen | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| efhand | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| KRAB | 3 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 0 |
| All proteins | 284 | 156 | 87 | 78 | 154 | 103 | 143 | 63 | 44 | 136 | 106 | 106 | 106 | 106 | 106 |