**LEGEND**

| PHOSPHOAMINO ACID-BINDING DOMAINS |
|-----------------------------------|
| SH2 | Src homology 2. Binds phosphoryl-containing polypeptides |
| FHA | Forkhead-associated. Binds phosphotyrosines. Highest specificity for phosphothreonine, but also recognizes phosphotyrosine. |

**SECOND-MESSENGER-BINDING DOMAINS**

| cAMP-binding | Cyclic AMP-dependent protein kinase binding domain. |
|-------------|-----------------------------------------------|
| cGMP-binding | Cyclic GMP-dependent protein kinase binding domain. |

**DOMAINS MEDIATING PROTEIN-PROTEIN INTERACTIONS**

| BTB | Contains a BTB (broad complex, tramtrack, broad复杂) domain |
| RNG | Contains a RNG motif. A novel motif that is found in many Ras-related proteins. |
| SM | Contains a SAM (speculus, MATH, PHD) domain. |
| DEP | Contains a DEP (disheveled, Egl-10, pleckstrin) domain. |
| WH2 | Contains a WH2 (Wiskott-Aldrich syndrome) domain. |
| POLO-BOX | Contains a POLO-BOX domain. |

**OTHER FUNCTIONS**

| GTP-antidote | Found in histidyl, glycyl, threonyl and prolyl tRNA synthetases. It is probably the antidote of the GTPase function. |
| PAC | Contains a PAC (phosphoacceptor) domain. |
| REC | Contains a REC (regulator of eukaryotic and prokaryotic cell division) domain. |
| FAT | Contains a FAT (fibronectin, actin, and transglutaminase) domain. |
| SWM | Contains a SWM (sperm motility) domain. |
| Extern 2 | Contains a Extern 2 domain. |
| ENTH | Contains an ENTH (envelope tangled) domain. |
| FAT | Contains a FAT (fibronectin, actin, and transglutaminase) domain. |
| FRAP | Contains a FRAP (fibronectin, actin, and transglutaminase) domain. |
| TRRAP | Contains a TRRAP (transducing receptor tyrosine kinase) domain. |
| PI3K | Contains a PI3K (phosphatidylinositol 3-kinase) domain. |
| RWD | Contains a RWD (Rheb, Widom, Dreview) domain. |
| Gator | Contains a Gator domain. |
| Heat_repeat | Contains a Heat_repeat domain. |
| MATH | Contains a MATH (Mangahas, Atchley, Tyler, and Hell) domain. |
| UBA | Contains a UBA (ubiquitin-associated) domain. |
| SPRY | Contains a SPRY (serrate, wingless, and Yorkie) domain. |
| wva | Contains a wva domain. |

**TRANSMEMBRANE HOMOLOGY DOMAINS**

| TMH | Transmembrane helix. |

**SECOND-ORDER PROTEIN-PROTEIN INTERACTIONS**

| Mdm | Contains a Mdm (mammary development) domain. |
| MATH | Contains a MATH (Mangahas, Atchley, Tyler, and Hell) domain. |
| RAB | Contains a RAB (rabs, Rab-related) domain. |
| WD | Contains a WD (Widom, Dreview) domain. |
| Prof | Contains a Prof domain. |
| Heat_repeat | Contains a Heat_repeat domain. |
| MATH | Contains a MATH (Mangahas, Atchley, Tyler, and Hell) domain. |
| UBA | Contains a UBA (ubiquitin-associated) domain. |
| SPRY | Contains a SPRY (serrate, wingless, and Yorkie) domain. |
| wva | Contains a wva domain. |