

| Motif # | | 1 | 2 | 3 | 4 | 5 |
|-------------------------|------------|----------------|------------------|----------------|----------------|-----------------|
| PITP alpha HS residue s | | 2 | 12 | | 26 | 37 |
| PITPNM1 HS residue star | | 1 | 11 | 24 | | 37 |
| RDGB Beta HS residue st | | 1 | 11 | 24 | | 36 |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | MKVVEFRI | PLKVEEYQKCQLY | | 0 | 0 SVGVVILKNESY |
| 56493706 | 2 | MKVVEFRI | PLTVDEYQKCQLY | | 0 | 0 SVGVILKNESY |
| 23619433 | 3 | MKIVEFRL | PLTIEEYKVCQLY | | 0 | 0 KKGIVILKNESY |
| 56509884 | 4 | MKVVEFRI | PLTVVEEYQKCQLY | | 0 | 0 SVGVVILKNESY |
| 22003862 | 5 | MLLKEYRI | PLTVDEYKIGQLY | MISKHSHE | | 0 GEGVEVVQNEPF |
| 62657241 | 6 | MLLKEYRI | PLTVDEYKIGQLY | MISKHSHE | | 0 GEGVEVVQNEPF |
| 32307140 | 7 | MLLKEYRI | PLTVDEYKIGQLY | MISKHSHE | | 0 GEGVEVVQNEPF |
| 50757849 | 8 | | 0 AATFTLYRIGQLY | MISKHSHE | | 0 GEGVEVVQNEPY |
| 47223953 | 9 | | 0 GTGGSEYRIGQLY | MISKHSHE | | 0 GEGVEVVQNEPF |
| 49256286 | 10 | MLLKEYRI | PLTVVEEYRIGQLY | MISKHSHE | | 0 GEGVEVMQNEPY |
| 62860160 | 11 | MLLKEYRI | PLTVVEEYRIGQLY | MISKHSHE | | 0 GEGVEVIINEPY |
| 62484257 | 12 | VLIKEYRV | PLTVVEEYKIGQLY | MIARHSLE | | 0 GEGVEVVENKPC |
| 50755397 | 13 | MLVKEYRI | PLTTEEYRVGQLY | | 0 | 0 GEGVEVVRNEPH |
| 47206861 | 14 | MLMKEYRI | PLTLEEYRIGQLY | MISKHSCE | | 0 GDGVEVVKNEDP |
| 17554244 | 15 | MLIKEYRI | PMTVQEYRIAQLY | MIQKKSRL | | 0 DSGVEIISNKPY |
| 39590557 | 16 | MLIKEYRI | PMTVQEYRIAQLY | MIQKKSRL | | 0 DSGVEIISNKPY |
| 24641869 | 17 | MLIKEYRI | PLTVVEEYRIAQLY | MIAKKSRE | | 0 GSGVEIINEPY |
| 54642914 | 18 | MLIKEYRI | PLTVVEEYRIAQLY | MIAKKSRE | | 0 GSGVEIINEPY |
| 55243798 | 19 | MLIKEYRI | PLTVVEEYRIAQLY | MIAKKSRE | | 0 GSGVEIIVNEPY |
| 48135931 | 20 | | 0 | 0 IVKKSRE | | 0 GSGVEIIVNEPY |
| 18490106 | 21 | MLIKEYHI | PMSLDEYQVAQLY | MIQKKSRE | | 0 GSGVEILANRPY |
| 56605814 | 22 | MLIKEYHI | PMSLDEYQVAQLY | MIQKKSRE | | 0 GSGVEILANRPY |
| 6679339 | 23 | MLIKEYHI | PMSLDEYQVAQLY | MIQKKSRE | | 0 GSGVEILANRPY |
| 55636463 | 24 | MLIKEYHI | PMSLDEYQVAQLY | MIQKKSRE | | 0 GSGVEILANRPY |
| 47124324 | 25 | MIIKEYRI | PMTVDEYRIAQLY | MIQKKSRL | | 0 GSGVEILENRPY |
| 62658898 | 26 | | 0 | 0 | 0 | 0 GSGVEILENRPY |
| 24308237 | 27 | MIIKEYRI | PMTVVEEYRIAQLY | MIQKKSRL | | 0 GSGVEILENRPY |
| 47228470 | 28 | MLIKEYRI | PMSVVEEYRIAQLY | MIQKKSRE | | 0 GSGVEILENKPY |
| 47226436 | 29 | MLIKEYRI | PMSVVEEYRIAQLY | MIQKKSRE | | 0 GSGVEILENKPY |
| 55639157 | 30 | MIIKEYRI | PMTVVEEYRIAQLY | MIQKKSRL | | 0 GSGVEILENRPY |
| 50756343 | 31 | MLIKEYRI | PMSVVEEYRIAQLY | MIQKKSRE | | 0 GSGVEILENRPY |
| 17556182 | 32 | | 0 PMSVVEEYQVQQLW | | 0 VAEASKAETGG | GEGVEVLKNEPF |
| 39590636 | 33 | MIIKEYRV | PLSVVEEYQVQQLW | | 0 VAEASKAETGG | GEGVEVLKNEPF |
| 20151901 | 34 | MQIKEYFRV | PLTVVEEYQVAQLF | | 0 VAEASKENTGG | GEGIEVLKNEPF |
| 7300495 | 35 | MQIKEYFRV | PLTVVEEYQVAQLF | | 0 VAEASKENTGG | GEGIEVLKNEPF |
| 6679337 | 36 | VLLKEYRV | PVSVDEYQVQQLY | | 0 VAEASKNETGG | GEGVEVLVNEPY |
| 8393962 | 37 | VLLKEYRV | PVSVDEYQVQQLY | | 0 VAEASKNETGG | GEGVEVLVNEPY |
| 5453908 | 38 | VLLKEYRV | PVSVDEYQVQQLY | | 0 VAEASKNETGG | GEGVEVLVNEPY |
| 2137007 | 39 | VLLKEYRV | PVSVDEYQVQQLY | | 0 VAEASKNETGG | GEGVEVLVNEPY |
| 57091327 | 40 | | 0 KLSCLVYQVQQLY | | 0 VAEASKNETGG | GEGVEVLVNEPY |
| 50758480 | 41 | | 0 QELFSQYQVQQLY | | 0 VAEASKNETGG | GEGVEVLVNEPY |
| 55660937 | 42 | VLIKEYFRV | PCSVQEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 6912594 | 43 | VLIKEYFRV | PCSVQEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 16758568 | 44 | VLIKEYFRV | PCSVQEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 9790159 | 45 | VLIKEYFRV | PCSVQEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 55731914 | 46 | VLIKEYFRV | PCSVQEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 53134209 | 47 | VLIKEYFRV | PCSVQEYQVQQLY | | 0 VAEASKNETGG | GEGIQVLINPEPY |
| 47937798 | 48 | VLIKEYFRV | PCSVVEEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 41055500 | 49 | VLIKEYRV | PCSVVEEYQVQQLF | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 38512077 | 50 | VLIKEYRV | PVSVVEEYQVQQLF | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 41055576 | 51 | MLIKEYFRV | PVSVVEEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 28422482 | 52 | | 0 PCSVVEEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 47228496 | 53 | VLIKEYRV | PVSVVEEYQVQQLY | | 0 VAEASKNETGG | GEGIEVLKNEPY |
| 55644759 | 54 | | 0 PVSVDEYQVQQLY | | 0 VAEASKNETGG | GEGVEVLVNEPY |
| 56756428 | 55 | MIIKEYFRV | PLTVDEYRVGQLW | | 0 VAEASKNETGG | GEGIEVLVNEPF |
| 8307957 | 56 | MLIKEYRM | PLTVVEEYQIAQLY | MVAKKSKE | | 0 GEGIEIINKNEPF |
| 8307955 | 57 | MLIREFRV | PLTVVEEYRVGQLY | | 0 | 0 GEGVEVLVNEPY |
| 48059855 | 58 | MIVKEYRI | PLTVDEYRVGQLY | | 0 VSACSRNETGG | GEGVEFLVQEDF |
| 29250063 | 59 | | 0 PFSIEKYKLGQLY | | 0 | 0 SDGFEILKNEPY |
| 19170839 | 60 | | 0 PMTDEYAVGHLH | | 0 | 0 |

| Motif # | | 6 | 7 | 8 | 9 | 10 |
|-------------------------|------------|----------------|----------------|----------------|----------------|----------------|
| PITP alpha HS residue s | | 55 | 66 | | 76 | 87 |
| PITPNM1 HS residue star | | 56 | 204 | 69 | | 88 |
| RDGB Beta HS residue st | | 55 | 198 | 68 | | 86 |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | GQYTLKKLNI | SKIENWII | | 0 | 0 CWNAYPYIKT |
| 56493706 | 2 | GQYTLKKLNI | SKIENWII | | 0 | 0 CWNAYPYIKT |
| 23619433 | 3 | GQYTYKRINL | SKLENWII | | 0 | 0 SWNAYPYLKT |
| 56509884 | 4 | GQYTLKKLNI | | 0 | 0 | 0 CWNAYPYIKT |
| 22003862 | 5 | GQFTEKRVYL | TRVEQFVH | LPSWARAVVPK | | 0 AWNYYPYTIT |
| 62657241 | 6 | GQFTEKRVYL | TRVEQFVH | LPSWARAVVPK | | 0 AWNYYPYTIT |
| 32307140 | 7 | GQFTEKRVYL | TRVEQFVH | LPSWARAVVPK | | 0 AWNYYPYTIT |
| 50757849 | 8 | GQLTEKRVYL | TRVEQFVH | LPSWARAVVPK | | 0 AWNYYPYTIT |
| 47223953 | 9 | GQFTEKRVYL | TRVEQFVH | LPSWARAVVPK | | 0 AWNYYPYTVT |
| 49256286 | 10 | GQLTEKRVYL | SRVEQFVH | LPSWARAVVPK | | 0 AWNYYPYTIT |
| 62860160 | 11 | GQYTEKRVYL | SRVESFVH | LPAWIRGFIPK | | 0 AWNYYPYTVT |
| 62484257 | 12 | GQYTEKHIHL | TKVEDFIQ | LPYWIQAICPR | | 0 SWNYYPYTLT |
| 50755397 | 13 | GQFTEKRVHL | TRVEQFVH | | 0 | 0 0 |
| 47206861 | 14 | GQLTEKRIYL | TRTEEFIH | LPSWAKALVPR | | 0 AWNFYPYTLT |
| 17554244 | 15 | GQYTFKIYHI | | 0 IPAWIRTVLPT | | 0 SWNAYPVTKT |
| 39590557 | 16 | GQYTFKIYHI | | 0 IPAWIRTVLPT | | 0 AWNAYPVTRT |
| 24641869 | 17 | GQYTKKIYHV | TKLEKFIH | LPGWIKSLLPK | | 0 AWNAYPYTRT |
| 54642914 | 18 | GQYTKKIYHV | TKLEKFIH | LPGWIKSLLPK | | 0 AWNAYPYTRT |
| 55243798 | 19 | GQYTRKIYHV | TKLEKFIH | LPGWIKGLLPK | | 0 AWNAYPYTKT |
| 48135931 | 20 | GQYTHKIYHV | TKLEKFIH | LPEWFKSLLPR | | 0 AWNAYPYTKT |
| 18490106 | 21 | GQYTHKVYHV | AKIEQFIH | IPGWFRALLPK | | 0 SWNAYPYTRT |
| 56605814 | 22 | GQYTHKVYHV | AKIEQFIH | IPGWFRALLPK | | 0 SWNAYPYTRT |
| 6679339 | 23 | GQYTHKVYHV | AKIEQFIH | IPGWFRALLPK | | 0 SWNAYPYTRT |
| 55636463 | 24 | GQYTHKVYHV | AKIEQFIH | IPGWFRALLPK | | 0 SWNAYPYTRT |
| 47124324 | 25 | GQYTHKVYHV | SKIERFIH | IPGWFRSILPK | | 0 SWNAYPYTRT |
| 62658898 | 26 | GQYTHKVYHV | SKIERFIH | IPGWFRSILPK | | 0 SWNAYPYTRT |
| 24308237 | 27 | GQYTHKVYHV | SKIERFIH | IPSWFRSILPK | | 0 SWNAYPYTRT |
| 47228470 | 28 | GQYTHKVYHI | SKIERFIH | IPSWFCAILPO | | 0 SWNAYPYTRT |
| 47226436 | 29 | GQYTHKVYHI | TKIERFIH | IPSWFRSILPK | | 0 SWNAYPYTRT |
| 55639157 | 30 | GQYTHKVYHV | SKIERFIH | IPSWFRSILPK | | 0 SWNAYPYTRT |
| 50756343 | 31 | GQYTHKVYHI | SKIERFIH | IPSWFRSILPK | | 0 SWNAYPYTRT |
| 17556182 | 32 | GQYTHKIYHL | | 0 | 0 APKGSLAIHEE | AWNAYPYCKT |
| 39590636 | 33 | GQYTHKIYHL | | 0 | 0 APKGSLAIHEE | AWNAYPYCKT |
| 20151901 | 34 | GQYTYKIYHL | SKVPAYIR | | 0 APKGSLEIHEE | AWNAYPYCRT |
| 7300495 | 35 | GQYTYKIYHL | SKVPAYIR | | 0 APKGSLEIHEE | AWNAYPYCRT |
| 6679337 | 36 | GQYTHKIYHL | SKVPTFVR | | 0 APEGALNIHEK | AWNAYPYCRT |
| 8393962 | 37 | GQYTHKIYHL | SKVPTFVR | | 0 APEGALNIHEK | AWNAYPYCRT |
| 5453908 | 38 | GQYTHKIYHL | SKVPTFVR | | 0 APEGALNIHEK | AWNAYPYCRT |
| 2137007 | 39 | GQYTHKIYHL | SKVPTFVR | | 0 APEGALNIHEK | AWNAYPYCRT |
| 57091327 | 40 | GQYTHKIYHL | SKVPTFVR | | 0 APEGALNIHEK | AWNAYPYCRT |
| 50758480 | 41 | GQYTHKIYHL | SKVPTFVR | | 0 APEGALNIHEK | AWNAYPYCRT |
| 55660937 | 42 | GQYTHKIYHL | SKVPAFVR | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 6912594 | 43 | GQYTHKIYHL | SKVPAFVR | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 16758568 | 44 | GQYTHKIYHL | SKVPAFVR | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 9790159 | 45 | GQYTHKIYHL | SKVPAFVR | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 55731914 | 46 | GQYTHKIYHL | SKVPAFVR | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 53134209 | 47 | GQYTHKIYHL | SKVPGFVR | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 47937798 | 48 | GQYTHKIYHL | SKVPGFVK | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 41055500 | 49 | GQYTHKIYHL | SKVPGFVK | | 0 APEGALVFHEK | AWNAYPYCRT |
| 38512077 | 50 | GQYTHKIYHL | SKVPGFVK | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 41055576 | 51 | GQYTHKIYRL | SKVPSFVR | | 0 APSSALIHEK | AWNAYPYCRT |
| 28422482 | 52 | GQYTHKIYHI | SKVPGFIQ | | 0 APEGALVFHEK | AWNAYPYCRT |
| 47228496 | 53 | GQYTHKIYHL | SKVPGFVK | | 0 APEGSLVFHEK | AWNAYPYCRT |
| 55644759 | 54 | GQYTHKIYHL | | 0 | 0 APEGALNIHEK | AWNAYPYCRT |
| 56756428 | 55 | GQYTHKRFYL | | 0 | 0 APKGSLEVDEK | AWNAYPYCRT |
| 8307957 | 56 | GQYTEKIIYL | TKVENVIQ | | 0 | 0 AWNAYPYCKT |
| 8307955 | 57 | GQYTHKIYHL | TKVENFMM | LPGWIRALIPS | | 0 AWNAYPYCKT |
| 48059855 | 58 | GTYYTKIYRL | | 0 | 0 | 0 SWNAYPYCKT |
| 29250063 | 59 | GIYTFKLLHL | | 0 | 0 | 0 CYNAPPHTVT |
| 19170839 | 60 | VNKTHKIMYL | | 0 | 0 | 0 0 |

| Motif # | | 11 | 12 | 13 | 14 | 15 |
|-------------------------|------------|----------------|----------------|----------------|-----------------|----------------|
| PITP alpha HS residue s | | | | 99 | 107 | 123 |
| PITPNM1 HS residue star | | | 98 | | 107 | |
| RDGB Beta HS residue st | | 97 | | | 105 | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | 0 | 0 | 0 | 0 | 0 |
| 56493706 | 2 | 0 | 0 | 0 | 0 | 0 |
| 23619433 | 3 | 0 | 0 | 0 | 0 | 0 |
| 56509884 | 4 | 0 | 0 | 0 | 0 | 0 |
| 22003862 | 5 | YTCSFLPK | 0 | 0 | FSIHETKYEDNKG | 0 |
| 62657241 | 6 | YTCSFLPK | 0 | 0 | FSIHETKYEDNKG | 0 |
| 32307140 | 7 | YTCSFLPK | 0 | 0 | FSIHETKYEDNKG | 0 |
| 50757849 | 8 | YTCSFLCK | 0 | 0 | FSIHETKYEDNKG | 0 |
| 47223953 | 9 | YTCSFLPK | 0 | 0 | FSIHETKYEDNKG | 0 |
| 49256286 | 10 | YTCSFLPK | 0 | 0 | FSIHETKYEDNKG | 0 |
| 62860160 | 11 | YTCSFLPK | 0 | 0 | FQIRIETKFENNG | 0 |
| 62484257 | 12 | YTCSFIPK | 0 | 0 | 0 | 0 |
| 50755397 | 13 | YTCSFLPK | 0 | 0 | FSIYIETKYEDNCG | 0 |
| 47206861 | 14 | 0 | 0 | 0 | FSIRIETRFENNG | 0 |
| 17554244 | 15 | 0 | 0 | 0 | FSLEVETLYFDDHG | 0 |
| 39590557 | 16 | 0 | 0 | 0 | FSLEVDTLYFDDHG | 0 |
| 24641869 | 17 | 0 | RYTCPFVE | 0 | FSLDIETYYFPDNG | 0 |
| 54642914 | 18 | 0 | RYTCPFVE | 0 | FSLDIETYYFPDNG | 0 |
| 55243798 | 19 | 0 | RYTCPFVE | 0 | FSLEIETYYFPDKG | 0 |
| 48135931 | 20 | 0 | RYTCPFVE | 0 | FSIEIETYYFPDNG | 0 |
| 18490106 | 21 | 0 | RYTCPFVE | 0 | FSIEIETYYLPDGG | 0 |
| 56605814 | 22 | 0 | RYTCPFVE | 0 | FSIEIETYYLPDGG | 0 |
| 6679339 | 23 | 0 | RYTCPFVE | 0 | FSIEIETYYLPDGG | 0 |
| 55636463 | 24 | 0 | RYTCPFVE | 0 | FSIEIETYYLPDGG | 0 |
| 47124324 | 25 | 0 | RFTCPFVE | 0 | FSIDIETFYKTDTG | 0 |
| 62658898 | 26 | 0 | RFTCPFVE | 0 | FSIDIETFYKTDTG | 0 |
| 24308237 | 27 | 0 | RFTCPFVE | 0 | FSIDIETFYKTDAG | 0 |
| 47228470 | 28 | 0 | RYTCPFVE | 0 | FSIDIETYYKPDTG | 0 |
| 47226436 | 29 | 0 | RYTCPFVE | 0 | FSIDIETYYKPDTG | 0 |
| 55639157 | 30 | 0 | RFTCPFVE | 0 | FSIDIETFYKTDAG | 0 |
| 50756343 | 31 | 0 | RYTCPFVE | 0 | FSIDIETYYKTDPG | 0 |
| 17556182 | 32 | 0 | 0 | 0 | FYVKIETIHLPDNG | 0 |
| 39590636 | 33 | 0 | 0 | 0 | FYVKIETIHLPDNG | 0 |
| 20151901 | 34 | 0 | 0 | 0 | FKIIIDTLHVG DAG | ENVHELTPDKLK |
| 7300495 | 35 | 0 | 0 | 0 | FKIIIDTLHVG DAG | ENVHELTPDKLK |
| 6679337 | 36 | 0 | 0 | TNEYMKED | FLIKIETWHKPD LG | ENVHKLEPEAWK |
| 8393962 | 37 | 0 | 0 | TNEYMKED | FLIKIETWHKPD LG | ENVHKLEPEAWK |
| 5453908 | 38 | 0 | 0 | TNEYMKED | FLIKIETWHKPD LG | ENVHKLEPEAWK |
| 2137007 | 39 | 0 | 0 | TNEYMKED | FLIKIETWHKPD LG | ENVHKLEPETWK |
| 57091327 | 40 | 0 | 0 | GNEYMKED | FLIKIETWHKPD LG | ENVHKLEPEAWK |
| 50758480 | 41 | 0 | 0 | RNEYMKDD | FLIKIETWHKSD LG | ENVHTLEPDVWK |
| 55660937 | 42 | 0 | 0 | TNEYMKDD | FFIKIETWHKPD LG | ENVHGLDPNTWK |
| 6912594 | 43 | 0 | 0 | TNEYMKDD | FFIKIETWHKPD LG | ENVHGLDPNTWK |
| 16758568 | 44 | 0 | 0 | TNEYMKDD | FFIKIETWHKPD LG | ENVHGLDPNTWK |
| 9790159 | 45 | 0 | 0 | TNEYMKDD | FFIKIETWHKPD LG | ENVHGLDPNTWK |
| 55731914 | 46 | 0 | 0 | TNECMKDD | FFIKIETWHKPD LG | ENVHGLDPNTWK |
| 53134209 | 47 | 0 | 0 | TNEYMKDD | FFIKIETWHKPD LG | ENVHNLDPNTWK |
| 47937798 | 48 | 0 | 0 | TNEYMKDD | FFIKIETWHKPD MG | ENVHCLDPNIWK |
| 41055500 | 49 | 0 | 0 | TNEYMKDD | FMIKIETWHKPD TG | ENVHDLDPITWK |
| 38512077 | 50 | 0 | 0 | TNEYMKDN | FFVKIETWHKPD FG | ENVHGLDSNTWK |
| 41055576 | 51 | 0 | 0 | TNEYMKDN | FLIMIETWHKPD LG | ENVHNLDSERWK |
| 28422482 | 52 | 0 | 0 | TNEYMKDD | FFIKIETWHKPD IG | ENPHGLPPEWE |
| 47228496 | 53 | 0 | 0 | QNEYMKDD | FMIEIKTWHKPD LG | ENVHQLDEQTLR |
| 55644759 | 54 | 0 | 0 | ENEYMKED | FLIKIETWHKPD LG | ENVHKLEPEAWK |
| 56756428 | 55 | 0 | 0 | 0 | FTLIIESMHVQDKV | ENIHNLPPKLLA |
| 8307957 | 56 | 0 | 0 | 0 | LVLISIESMHLPGRG | 0 |
| 8307955 | 57 | 0 | 0 | 0 | FTFIIIESRHAQDNC | ENIHNLSEKELK |
| 48059855 | 58 | 0 | 0 | 0 | FHQIETIHLDDNG | 0 |
| 29250063 | 59 | 0 | 0 | 0 | 0 | 0 |
| 19170839 | 60 | 0 | 0 | 0 | 0 | 0 |

| Motif # | | 16 | 17 | 18 | 19 |
|-------------------------|------------|--------------------------|----------------|----------------|----------------|
| PITP alpha HS residue s | | | 137 | 153 | 163 |
| PITPNM1 HS residue star | | 124 | | 152 | 162 |
| RDBG Beta HS residue st | | | 134 | 149 | 159 |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | | 0 KIIYIDIV | | 0 FLSQKTGRGHF |
| 56493706 | 2 | | 0 KIIYIDIV | EYNSNEDP | FLSKKTGRGHF |
| 23619433 | 3 | | 0 KVIYVDIV | DYNESEDP | FYSDKAKRGKL |
| 56509884 | 4 | | 0 KIIYIDIV | EYNSNEDP | FLSQKTGRGHF |
| 22003862 | 5 | | 0 EVCFIDIA | YKESSEDP | FKSEKTGRGQL |
| 62657241 | 6 | | 0 EVCFIDIA | YKESSEDP | FKSEKTGRGQL |
| 32307140 | 7 | | 0 EVCFIDIA | YKESSEDP | FKSEKTGRGQL |
| 50757849 | 8 | | 0 EVCFIDIA | YKESSEDP | FKSQKTGRGQL |
| 47223953 | 9 | | 0 EVCFVDIA | | 0 FKSQKTSRGIL |
| 49256286 | 10 | | 0 EICFIDIA | YKESSEDP | FVSEKTGRGLL |
| 62860160 | 11 | | 0 DVCFVDIA | | 0 FHSVKTGRGPL |
| 62484257 | 12 | | 0 TVDHLIDIA | HYKKEEDP | FKSEKTNRGPL |
| 50755397 | 13 | | 0 EVSFLIDIA | | 0 FSSAKTGRGPL |
| 47206861 | 14 | | 0 | 0 HYKSEEDL | WQSSKTGRGPL |
| 17554244 | 15 | NVFNLNKDKKSTRIIDYDFVKD | | 0 DYCAEEDP | YRSETTNRGPL |
| 39590557 | 16 | NVFGLSDDKDKATRIIDYDFVKD | | 0 DYCAEEDP | FHSEKTGRGPL |
| 24641869 | 17 | NVFQLSGSDLNRNRIVDVIDIVKD | | 0 DYVKEEDP | YVSEKTGRGPL |
| 54642914 | 18 | NVFQLSGSDLNRNRIVDVIDIVKD | | 0 DYVKEEDP | FISEKTGRGPL |
| 55243798 | 19 | NVFKLSGADLRNRIVDLIDIVKD | | 0 DYTREEDP | YCSERTGRGPL |
| 48135931 | 20 | NVFKLSGSDLNRNRIVDVIDIVKD | | 0 DYVKEEDP | YVSQKTNRGPL |
| 18490106 | 21 | NVFNLSGAERRQRILDTIDIVRD | | 0 EYKAEEDP | YHSVKTGRGPL |
| 56605814 | 22 | NVFNLSGAERRQRILDTIDIVRD | | 0 EYKAEEDP | YRSVKTGRGPL |
| 6679339 | 23 | NVFNLSGAERRQRIVDTIDIVRD | | 0 EYKAEEDP | YRSAKTGRGPL |
| 55636463 | 24 | NVFNLSGAERRQRILDTIDIVRD | | 0 EYKAEEDP | YRSVKTGRGPL |
| 47124324 | 25 | NVFNLSPEKSQLITDIIDIVKD | | 0 EYKTEEDP | FQSVKTCRGPL |
| 62658898 | 26 | NVFNLSPEKSQLITDIIDIVKD | | 0 EYKTEEDP | FQSIKTRRGPL |
| 24308237 | 27 | | 0 TIDFIDIV | EYKTEEDP | FQSTKTQRGPL |
| 47228470 | 28 | DVFTMSAAEKQRTPIDIVKD | | 0 EYLAEEDP | YQSVKTRRGPL |
| 47226436 | 29 | DVFNLSAADKRQTIDPIDIVTD | | 0 EYKAEEDT | YKSVKTQRGPL |
| 55639157 | 30 | | 0 TIDFIDIV | EYKTEEDP | FQSTKTQRGPL |
| 50756343 | 31 | NVFNLSPAEKQRTPIDIVKD | | 0 EYKAEEDP | YKSVKTKRGPL |
| 17556182 | 32 | | 0 EVVNINIA | | 0 FQSTKTGRGPL |
| 39590636 | 33 | | 0 EIVNVNIA | | 0 FQSTKTGRGPL |
| 20151901 | 34 | | 0 EVVHIDIA | DYKPDEDP | YQSKKTGRGPL |
| 7300495 | 35 | | 0 EIVHIDIA | DYKPDEDP | YQSKKTGRGPL |
| 6679337 | 36 | | 0 EAIYIDIA | DYKAEEDP | FKSVKTGRGPL |
| 8393962 | 37 | | 0 EAIYIDIA | DYKAEEDP | FKSIKTGRGPL |
| 5453908 | 38 | | 0 EAVYIDIA | DYKAEEDP | FKSIKTGRGPL |
| 2137007 | 39 | | 0 EVIYIDIA | DYKAEEDP | FKSIKTGRGPL |
| 57091327 | 40 | | 0 EAIYIDIA | DYKAEEDP | FKSIKTGRGPL |
| 50758480 | 41 | | 0 EAIYIDIA | DYKAEEDP | FKSVKTGRGPL |
| 55660937 | 42 | | 0 EIVHIDIA | DYKAEDDP | FQSVKTKRGPL |
| 6912594 | 43 | | 0 EIVHIDIA | DYKAEDDP | FQSVKTKRGPL |
| 16758568 | 44 | | 0 EIVHIDIA | DYKAEDDP | FQSVKTKRGPL |
| 9790159 | 45 | | 0 EIVHIDIA | DYKAEDDP | FHSVKTKRGPL |
| 55731914 | 46 | | 0 EIVHIDIA | DYKAEDDP | FQSVKTKRGPL |
| 53134209 | 47 | | 0 EVVHIDIA | DYKAEDDP | FQSVKTKRGPL |
| 47937798 | 48 | | 0 DVIDIDIA | DYKASEDP | FQSVKTKRGPL |
| 41055500 | 49 | | 0 EVVHIDIA | DYKPEEDP | FHSEKTGRGPL |
| 38512077 | 50 | | 0 EVVPIDIA | DYKANEDP | YRSEKTGRGPL |
| 41055576 | 51 | | 0 EVIHIDIA | DYKPDEDP | FKSQKTGRGPL |
| 28422482 | 52 | | 0 EIVPIDIA | DYKAEEDP | YHSEKTGRGPL |
| 47228496 | 53 | | 0 EVVPIDIA | DYKPEEDP | FHSAKTGRGPL |
| 55644759 | 54 | | 0 EAVYIDIA | DYKAEEDP | FKSIKTGRGPL |
| 56756428 | 55 | | 0 EVIYIDIA | | 0 YQSVKTGRGPL |
| 8307957 | 56 | | 0 HVDFIDIA | EYIKEEDP | FKSVKTERGPL |
| 8307955 | 57 | | 0 | 0 NYKETEDP | IRSEKANRGPL |
| 48059855 | 58 | | 0 EIVFIDIA | | 0 FEAETVERGPL |
| 29250063 | 59 | | 0 | 0 | 0 |
| 19170839 | 60 | | 0 | 0 | 0 |

| Motif # | | 20 | 21 | 22 | 23 |
|-------------------------|------------|----------------|--------------------|----------------|----------------|
| PITP alpha HS residue s | | 175 | 190 | 207 | 217 |
| PITPNM1 HS residue star | | | 187 | | |
| RDGB Beta HS residue st | | | 181 | | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | 0 | MTCYKLITLDIPYFGLF | 0 | 0 |
| 56493706 | 2 | 0 | MTCYKLITLDIPYFGLF | SKCESFSN | 0 |
| 23619433 | 3 | 0 | 0 | 0 | 0 |
| 56509884 | 4 | 0 | 0 | 0 | 0 |
| 22003862 | 5 | 0 | MCSYKLVTVKFEVWGLQ | 0 | 0 |
| 62657241 | 6 | 0 | MCSYKLVTVKFEVWGLQ | 0 | 0 |
| 32307140 | 7 | 0 | MCSYKLVTVKFEVWGLQ | 0 | 0 |
| 50757849 | 8 | 0 | MCSYKLVTVKFEVWGLQ | 0 | 0 |
| 47223953 | 9 | 0 | MCSYKLVTVKFEVWGLQ | 0 | 0 |
| 49256286 | 10 | 0 | MCSYKLVAVKFEVWGLQ | 0 | 0 |
| 62860160 | 11 | 0 | MCSYKLVAAKFEVYGFQ | 0 | 0 |
| 62484257 | 12 | 0 | MCSYKVVHASFEVWGLQ | 0 | 0 |
| 50755397 | 13 | 0 | MCSYKLVTVKFEVWGLQ | 0 | 0 |
| 47206861 | 14 | 0 | MCSYKRVQCSFEVYGFQ | 0 | 0 |
| 17554244 | 15 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 39590557 | 16 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 24641869 | 17 | 0 | MTAYKICRVEFRYWGMQ | 0 | 0 |
| 54642914 | 18 | 0 | MTAYKICRVEFRYWGMQ | 0 | 0 |
| 55243798 | 19 | 0 | MCAYKLCRVEFRYWGMQ | 0 | 0 |
| 48135931 | 20 | 0 | MCAYKLCRVEFRYWGVQ | 0 | 0 |
| 18490106 | 21 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 56605814 | 22 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 6679339 | 23 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 55636463 | 24 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 47124324 | 25 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 62658898 | 26 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 24308237 | 27 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 47228470 | 28 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 47226436 | 29 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 55639157 | 30 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 50756343 | 31 | 0 | MCAYKLCKVEFRYWGMQ | 0 | 0 |
| 17556182 | 32 | 0 | MCAYKLVTVYFKWFGFQ | 0 | 0 |
| 39590636 | 33 | 0 | MCAYKLVTVYFKWFGFQ | 0 | 0 |
| 20151901 | 34 | 0 | MTCYKLVTCFEFKWFGFQ | TRVENFIQ | ERRLFTNF |
| 7300495 | 35 | 0 | MTCYKLVTCFEFKWFGFQ | TRVENFIQ | ERRLFTNF |
| 6679337 | 36 | PNWKQELVN | MCAYKLVTVKFKWWGLQ | NKVENFIH | EKRLFTNF |
| 8393962 | 37 | PNWKQELVN | MCAYKLVTVKFKWWGLQ | NKVENFIH | EKRLFTNF |
| 5453908 | 38 | PNWKQELVN | MCAYKLVTVKFKWWGLQ | NKVENFIH | ERRLFTNF |
| 2137007 | 39 | PNWKQELVN | MCAYKLVTVKFKWWGLQ | NKVENFIH | ERRLFTNF |
| 57091327 | 40 | PNWKQELVN | MCAYKLVTVKFKWWGLQ | NKVENFIH | ERRLFTNF |
| 50758480 | 41 | PNWKKELGK | MCAYKLVTVKFKWWGLQ | NKIENFIQ | EKRLFTNF |
| 55660937 | 42 | PNWKKELAN | MCAYKLVTIKFKWWGLQ | SKVENFIQ | EKRIFTNF |
| 6912594 | 43 | PNWKKELAN | MCAYKLVTIKFKWWGLQ | SKVENFIQ | EKRIFTNF |
| 16758568 | 44 | PNWKKELAN | MCAYKLVTIKFKWWGLQ | SKVENFIQ | EKRIFTNL |
| 9790159 | 45 | PNWKKELAN | MCAYKLVTIKFKWWGLQ | SKVENFIQ | EKRIFTNL |
| 55731914 | 46 | PNWKKELAN | MCAYKLVTIKFKWWGLQ | SKVENFIQ | EKRIFTNF |
| 53134209 | 47 | PNWKKELAT | MCAYKLVTIKFKWWGLQ | NKVENLIQ | EKRIFTNF |
| 47937798 | 48 | PNWKKELVN | MCAYKLVTIKFKWWGLQ | NKVESFIQ | EKRIFTNF |
| 41055500 | 49 | PDWKKELLA | MCAYKLVTVGFKWWGLQ | TKIENFIH | EKRIFTNF |
| 38512077 | 50 | QDWKKELAN | MCAYKLVTVKFKWWGLQ | GKVERFIH | EKRLFTNF |
| 41055576 | 51 | PDWKKELPQ | MCAYKLVTVNFKWFGFQ | KKVEGFIH | EKRLFTSF |
| 28422482 | 52 | PEWKKELHN | MTAYKLVTVHFRWWGLQ | GRVENFIH | EKRLFTNF |
| 47228496 | 53 | 0 | 0 | 0 | EKRIFTNF |
| 55644759 | 54 | 0 | 0 | 0 | ERRLFTNF |
| 56756428 | 55 | 0 | MCAYKLVTCFEFKWGGIQ | 0 | 0 |
| 8307957 | 56 | 0 | MTCYKLVHAEFKYWGFGQ | 0 | 0 |
| 8307955 | 57 | 0 | MTCYKLVTVVEFKYFGFQ | 0 | 0 |
| 48059855 | 58 | 0 | MCCYKLVVSCHFKWTGLQ | 0 | 0 |
| 29250063 | 59 | 0 | 0 | 0 | 0 |
| 19170839 | 60 | 0 | 0 | 0 | 0 |

| Motif # | | 24 | 25 | 26 | 27 |
|-------------------------|------------|-------------------------|----------------|----------------|----------------------------------|
| PITP alpha HS residue s | | 225 | 245 | | |
| PITPNM1 HS residue star | | 223 | 243 | 294 | 328 |
| RDGB Beta HS residue st | | 216 | | 269 | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | HRKAFWCWIDWELFKIEDIR | | 0 | 0 |
| 56493706 | 2 | HRKAFWCWIDWFDLKI DIR | | 0 | 0 |
| 23619433 | 3 | HRKAFWCWIDWIDLTI DIR | | 0 | 0 |
| 56509884 | 4 | | 0 | 0 | 0 |
| 22003862 | 5 | HRQAFAWVDEWYDMTMD D VR | | 0 | 0 |
| 62657241 | 6 | HRQAFAWVDEWYDMTMD D VR | | 0 | 0 |
| 32307140 | 7 | HRQAFAWVDEWYDMTMD E VR | | 0 RSAPSSAP | 0 |
| 50757849 | 8 | HRQAFAWVDEWYDMTMD D VR | | 0 PPVPAAGR | 0 |
| 47223953 | 9 | HRQAFAWVDEWIDMTMD E VR | | 0 PSTPMC TD | 0 |
| 49256286 | 10 | | 0 | 0 | 0 |
| 62860160 | 11 | HRQAVAWMDEWYGMSLE D VR | | 0 | 0 |
| 62484257 | 12 | HRQAFAWVDEWHGMTLE D VR | | 0 | 0 |
| 50755397 | 13 | HRQAFTWVDEWCGMTME E VR | | 0 HSAPASAP | 0 |
| 47206861 | 14 | | 0 | 0 | 0 |
| 17554244 | 15 | HRQAWAWQDEWGTGLTM N DIR | | 0 | 0 |
| 39590557 | 16 | HRQAWAWQDEWGTGLTM N DIR | | 0 | 0 |
| 24641869 | 17 | HRQAWAWQDEWFGLTI E DIR | | 0 PSAEASSD | LQVANWRMERLEVD SKS NS DEEFFDCLD |
| 54642914 | 18 | HRQAWAWQDEWYGLTI E DIR | | 0 PSAEASST | LQVANWRMERLEVD SKS NS DEEFFDCLD |
| 55243798 | 19 | HRQAWAWQDEWYGLSM D DIR | | 0 PSPPGSPG | 0 |
| 48135931 | 20 | HRQAWAWQDEWNGLTME N IR | | 0 | 0 MQIANWRMESIVRE SE S DEEFFD CQE |
| 18490106 | 21 | HRQAWCWQDEWTELSM A DIR | ALEEETARML | PPGPDASP | QSLSEWRMQNIAR D SENS S EEEFFDAHE |
| 56605814 | 22 | HRQAWCWQDEWIELSM A DIR | ALEEETARML | PPGPDASP | QSLSEWRMQNIAR D SENS S EEEFFDAHE |
| 6679339 | 23 | HRQAWCWQDEWIELSM A DIR | ALEEETARML | PGTSTAGT | QSLSEWRMQNIAR D SENS S EEEFFDAHE |
| 55636463 | 24 | HRQAWCWQDEWTELSM A DIR | ALEEETARML | PIAPAPSS | QSLSEWRMQNIAR D SENS S EEEFFDAHE |
| 47124324 | 25 | HRQAWCWQDEWYGLTME K IR | | 0 PCPPICAD | HSISEWRMQSIAR D SDEGS EEEFFDAHE |
| 62658898 | 26 | HRQAWCWQDEWYGLTME K IR | | 0 PCPPICAD | HSISEWRMQSIAR D SDESSEEEFFDAQE |
| 24308237 | 27 | HRQAWCWQDEWYGLSM E N IR | | 0 PPEPSSSN | HSISEWRMQSIAR D SDESSEEEFFDAHE |
| 47228470 | 28 | HRQAWCWQDEWYGLTI E DIR | | 0 PGSEAAGS | QSISEWRMQSIAR D SEDSTDEEFFDAHE |
| 47226436 | 29 | HRQAWCWQDEWYGLTME D IR | | 0 PSSPDAAL | HSISEWRMQSIAR D SDDSSDEEFFDAHE |
| 55639157 | 30 | | 0 | 0 PMAPVUSA | 0 |
| 50756343 | 31 | HRQAWCWQDEWYGLTI E DIR | | 0 | 0 |
| 17556182 | 32 | HREVFCWIDKWHGLTM V DIR | | 0 | 0 |
| 39590636 | 33 | HREVFCWIDKWHGLTM D DIR | | 0 | 0 |
| 20151901 | 34 | HRQVFCSTDRWYGLTME D IR | | 0 | 0 |
| 7300495 | 35 | HRQVFCSTDRWYGLTME D IR | | 0 | 0 |
| 6679337 | 36 | HRQLFCWLDKQVDLTM D DIR | RMEETKRQL | | 0 |
| 8393962 | 37 | HRQLFCWLDKQVDLTM D DIR | RMEETKRQL | | 0 |
| 5453908 | 38 | HRQLFCWLDKQVDLTM D DIR | RMEETKRQL | | 0 |
| 2137007 | 39 | HRQLFCWLDKQVDLTM D DIR | RMEETKRQL | | 0 |
| 57091327 | 40 | HRQLFCWLDKQVDLTM D DIR | RMEETKRQL | | 0 |
| 50758480 | 41 | HRQLFCWLDKQVDLTME D IR | RMEETKRQL | | 0 |
| 55660937 | 42 | HRQLFCWIDKWIDLTM E DIR | RMEDETQKEL | | 0 |
| 6912594 | 43 | HRQLFCWIDKWIDLTM E DIR | RMEDETQKEL | | 0 |
| 16758568 | 44 | HRQLFCWIDKWIDLTM E DIR | RMEDETQKEL | | 0 |
| 9790159 | 45 | HRQLFCWIDKWIDLTM E DIR | RMEDETQKEL | | 0 |
| 55731914 | 46 | HRQLFCWIDKWIDLTM E DIR | RMEDETQKEL | | 0 |
| 53134209 | 47 | HRQLFCWIDKWIDLTM E DIR | RMEDETQKEL | | 0 |
| 47937798 | 48 | HRQLFCWIDDWIDLTM E DIR | RMEDKTQREL | | 0 |
| 41055500 | 49 | HRQLFCWIDNWVELTME D IR | RMEETQREL | | 0 |
| 38512077 | 50 | HRQLFCSLDRWVELTME D IR | RMEDETQKEL | | 0 |
| 41055576 | 51 | HRQLFCWLDRWIDLTM E DIR | RMEETQKEL | | 0 |
| 28422482 | 52 | HRQLFCWLDRWVDTMD D DIR | RMEETQREL | | 0 |
| 47228496 | 53 | HRQLFCWIDRWVGLTME D IR | RMEDETQREL | | 0 |
| 55644759 | 54 | HRQLFCWLDKQVDLTM D DIR | RMEETKRQL | | 0 |
| 56756428 | 55 | NRQVFCWLDKWHGLSMS D IR | | 0 | 0 |
| 8307957 | 56 | HRALFCWIDWFGFLTIE D IR | KIEEETKAEL | | 0 |
| 8307955 | 57 | HRQVYCWLDWFGMSMD D VR | | 0 | 0 |
| 48059855 | 58 | HRDAYVLLDNWFNMSM E SIR | | 0 | 0 |
| 29250063 | 59 | HKKCCIWWDEWKGMTMD D IK | | 0 | 0 |
| 19170839 | 60 | | 0 | 0 | 0 |

| Motif # | | 28 | 29 | 30 | 31 | 32 |
|-------------------------|------------|---------------------|-------------------|-----------------|----------------|----------------|
| PITP alpha HS residue s | | | | | | |
| PITPNM1 HS residue star | | 546 | 677 | 727 | 755 | 791 |
| RDGB Beta HS residue st | | | | | | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | 0 | 0 | 0 | 0 | 0 |
| 56493706 | 2 | 0 | 0 | 0 | 0 | 0 |
| 23619433 | 3 | 0 | 0 | 0 | 0 | 0 |
| 56509884 | 4 | 0 | 0 | 0 | 0 | 0 |
| 22003862 | 5 | 0 | 0 | 0 | 0 | 0 |
| 62657241 | 6 | 0 | 0 | 0 | 0 | 0 |
| 32307140 | 7 | 0 | 0 | 0 | 0 | 0 |
| 50757849 | 8 | 0 | 0 | 0 | 0 | 0 |
| 47223953 | 9 | 0 | 0 | 0 | 0 | 0 |
| 49256286 | 10 | 0 | 0 | 0 | 0 | 0 |
| 62860160 | 11 | 0 | 0 | 0 | 0 | 0 |
| 62484257 | 12 | 0 | 0 | 0 | 0 | 0 |
| 50755397 | 13 | 0 | 0 | 0 | 0 | 0 |
| 47206861 | 14 | 0 | 0 | 0 | 0 | 0 |
| 17554244 | 15 | 0 | 0 NLYYPLDPCGARIEP | VPKYQRYPLGDG | | 0 |
| 39590557 | 16 | 0 | 0 NLYYPLDPCGARIEP | VPKYQRYPLGDG | | 0 |
| 24641869 | 17 | FLKSEEGHGFSGQIVMLGD | PSSAASVG | NLFHPTDPIASRLEP | VPRYAKYPLGNG | PGSPSTPS |
| 54642914 | 18 | FLKSEEGHGFSGQIVMLGD | PGSPSTPS | NLFHPTDPIASRLEP | VPRYAKYPLGSG | DASPSAAD |
| 55243798 | 19 | FLKSDEGRGFNGQVVLIGD | PSCPTTVL | NLFHPTDPTAARLEP | VPRYAKYPLGNG | 0 |
| 48135931 | 20 | FIKSEEGRGFTGQICFIGD | 0 | NLFHPTDPVAARLEP | VAQYQKYPLGNG | 0 |
| 18490106 | 21 | FLRSPEGAGFCGQVALIGD | PDGPSSTA | NLFHAADPCASRLEP | VPRYQKFPLGDG | PSTPTSTS |
| 56605814 | 22 | FLRSSEGTGFCGQVVLIGD | PDGPTNAA | NLFHAADPCASRLEP | VPRYQKFPLGDG | PSTPTSAS |
| 6679339 | 23 | FLRSSEGTGFCGQVVLIGD | PPGPDASP | NLFHAADPCASRLEP | VPRYQKFPLGDG | PDGPTNAA |
| 55636463 | 24 | 0 | PGTPVPTG | NLFHAADPCASRLEP | VPRYQKFPLGDG | PPGPDASP |
| 47124324 | 25 | FIKSQEGVTFNGQVCLIGD | PSSPGTAP | 0 | IPRYQRYPLGDG | 0 |
| 62658898 | 26 | FIKSQEGVTFNGQVCLIGD | PLMPSLAT | NLFHPADPSASRLEP | IPRYQRYPLGDG | PKAPAQVM |
| 24308237 | 27 | FIKSQEGMTFNGQVCLIGD | PCPVCSD | NLFHPADPSASRLEP | VPRYQRYPLGDG | PSSPGTAP |
| 47228470 | 28 | FIKSLEGESFNGQVCLGD | PAAASCA | NLFHPADPSASRLEP | VPRYQRFPLGDG | PPSLAASS |
| 47226436 | 29 | FLKSLDGAAFSGQVSSCRL | 0 | 0 | 0 | 0 |
| 55639157 | 30 | FIKSQEGMTFNGQVCLIGD | PSSPGTAP | TSSTPADPSASRLEP | VPRYQRYPLGDG | PQAPLAPG |
| 50756343 | 31 | 0 | 0 | 0 | 0 | 0 |
| 17556182 | 32 | 0 | 0 | 0 | 0 | 0 |
| 39590636 | 33 | 0 | 0 | 0 | 0 | 0 |
| 20151901 | 34 | 0 | 0 | 0 | 0 | 0 |
| 7300495 | 35 | 0 | 0 | 0 | 0 | 0 |
| 6679337 | 36 | 0 | 0 | 0 | 0 | 0 |
| 8393962 | 37 | 0 | 0 | 0 | 0 | 0 |
| 5453908 | 38 | 0 | 0 | 0 | 0 | 0 |
| 2137007 | 39 | 0 | 0 | 0 | 0 | 0 |
| 57091327 | 40 | 0 | 0 | 0 | 0 | 0 |
| 50758480 | 41 | 0 | 0 | 0 | 0 | 0 |
| 55660937 | 42 | 0 | 0 | 0 | 0 | 0 |
| 6912594 | 43 | 0 | 0 | 0 | 0 | 0 |
| 16758568 | 44 | 0 | 0 | 0 | 0 | 0 |
| 9790159 | 45 | 0 | 0 | 0 | 0 | 0 |
| 55731914 | 46 | 0 | 0 | 0 | 0 | 0 |
| 53134209 | 47 | 0 | 0 | 0 | 0 | 0 |
| 47937798 | 48 | 0 | 0 | 0 | 0 | 0 |
| 41055500 | 49 | 0 | 0 | 0 | 0 | 0 |
| 38512077 | 50 | 0 | 0 | 0 | 0 | 0 |
| 41055576 | 51 | 0 | 0 | 0 | 0 | 0 |
| 28422482 | 52 | 0 | 0 | 0 | 0 | 0 |
| 47228496 | 53 | 0 | 0 | 0 | 0 | 0 |
| 55644759 | 54 | 0 | 0 | 0 | 0 | 0 |
| 56756428 | 55 | 0 | 0 | 0 | 0 | 0 |
| 8307957 | 56 | 0 | 0 | 0 | 0 | 0 |
| 8307955 | 57 | 0 | 0 | 0 | 0 | 0 |
| 48059855 | 58 | 0 | 0 | 0 | 0 | 0 |
| 29250063 | 59 | 0 | 0 | 0 | 0 | 0 |
| 19170839 | 60 | 0 | 0 | 0 | 0 | 0 |

| Motif # | | 33 | 34 | 35 | 36 |
|-------------------------|------------|------------------|------------------|------------------------|-------------------------|
| PITP alpha HS residue s | | | | | |
| PITPNM1 HS residue star | | 815 | 831 | 856 | 899 |
| RDGB Beta HS residue st | | | | | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | 0 | 0 | 0 | 0 |
| 56493706 | 2 | 0 | 0 | 0 | 0 |
| 23619433 | 3 | 0 | 0 | 0 | 0 |
| 56509884 | 4 | 0 | 0 | 0 | 0 |
| 22003862 | 5 | 0 | 0 | 0 | 0 |
| 62657241 | 6 | 0 | 0 | 0 | 0 |
| 32307140 | 7 | 0 | 0 | 0 | 0 |
| 50757849 | 8 | 0 | 0 | 0 | 0 |
| 47223953 | 9 | 0 | 0 | 0 | 0 |
| 49256286 | 10 | 0 | 0 | 0 | 0 |
| 62860160 | 11 | 0 | 0 | 0 | 0 |
| 62484257 | 12 | 0 | 0 | 0 | 0 |
| 50755397 | 13 | 0 | 0 | 0 | 0 |
| 47206861 | 14 | 0 | 0 | 0 | 0 |
| 17554244 | 15 | 0 MWGSKRIDNLLYCP | PNILHASYWES | PTMHWKRKRTRFKIANLSANHR | |
| 39590557 | 16 | 0 MWGSKRIDNLLYCP | PNILHASYWES | PTMHWKRKRTRFKIANLSANHR | |
| 24641869 | 17 | DASPSAAD | WWGTKRLDYALYCP | PHLFHASYWES | PREKWIKKRRTSVKLNVAANHR |
| 54642914 | 18 | | 0 WWGTKRLDYALYCP | PHLFHASYWES | PREKWIKKRRTSVKLNVAANHR |
| 55243798 | 19 | | 0 SWGSKRLDYALYCP | PHLFHASYWES | PREKWKKRRTSVKLNVAANHR |
| 48135931 | 20 | | 0 WWGTKRLDYALYCP | PHLFHASYWES | PREKWKKRRTSVKLNVAANHR |
| 18490106 | 21 | PAAPSTTS | WWGTKRIDYSLYCP | PHLFHASYWES | PREKWQRKRTQVKIRNVTANHR |
| 56605814 | 22 | PAAPSTTS | WWGNKRIDYSLYCP | PHLFHASYWES | PREKWQRKRTQVKIRNVTANHR |
| 6679339 | 23 | PSTPTSAS | WWGNKRIDYSLYCP | PHLFHASYWES | PREKWQRKRTQVKIRNVTANHR |
| 55636463 | 24 | PECPAETP | WWGTKRIDYSLYCP | PHLFHASYWES | PREKWQRKRTQVKIRV GALPLA |
| 47124324 | 25 | | 0 WWGQKRIDYALYCP | PHLFHASYWES | PRERWQRKRTHVKLRNVAANHR |
| 62658898 | 26 | PSSPGTAP | WWGQKRIDYALYCP | PHLFHASYWES | PREKWQRKRTHVKLRNVAANHR |
| 24308237 | 27 | PGAAAGPK | WWGQKRIDYALYCP | PHLFHASYWES | PREKWQRKRTHVKLRNVTANHR |
| 47228470 | 28 | PLCPAGEQ | WWGSKRIDYALYCP | PHLFHASYWES | PREKWLRKRTHVKIRNVTANHR |
| 47226436 | 29 | | 0 WWGTKRLDFALYCP | PHLFHASYWES | PREKWLRKRTHVKIRNVTANHR |
| 55639157 | 30 | | 0 WWGQKRIDYALYCP | PHLFHASYWES | PREKWQRKRTHVKLRNVTANHR |
| 50756343 | 31 | | 0 | 0 | 0 |
| 17556182 | 32 | | 0 | 0 | 0 |
| 39590636 | 33 | | 0 | 0 | 0 |
| 20151901 | 34 | | 0 | 0 | 0 |
| 7300495 | 35 | | 0 | 0 | 0 |
| 6679337 | 36 | | 0 | 0 | 0 |
| 8393962 | 37 | | 0 | 0 | 0 |
| 5453908 | 38 | | 0 | 0 | 0 |
| 2137007 | 39 | | 0 | 0 | 0 |
| 57091327 | 40 | | 0 | 0 | 0 |
| 50758480 | 41 | | 0 | 0 | 0 |
| 55660937 | 42 | | 0 | 0 | 0 |
| 6912594 | 43 | | 0 | 0 | 0 |
| 16758568 | 44 | | 0 | 0 | 0 |
| 9790159 | 45 | | 0 | 0 | 0 |
| 55731914 | 46 | | 0 | 0 | 0 |
| 53134209 | 47 | | 0 | 0 | 0 |
| 47937798 | 48 | | 0 | 0 | 0 |
| 41055500 | 49 | | 0 | 0 | 0 |
| 38512077 | 50 | | 0 | 0 | 0 |
| 41055576 | 51 | | 0 | 0 | 0 |
| 28422482 | 52 | | 0 | 0 | 0 |
| 47228496 | 53 | | 0 | 0 | 0 |
| 55644759 | 54 | | 0 | 0 | 0 |
| 56756428 | 55 | | 0 | 0 | 0 |
| 8307957 | 56 | | 0 | 0 | 0 |
| 8307955 | 57 | | 0 | 0 | 0 |
| 48059855 | 58 | | 0 | 0 | 0 |
| 29250063 | 59 | | 0 | 0 | 0 |
| 19170839 | 60 | | 0 | 0 | 0 |

| Motif # | | 37 | 38 | 39 |
|-------------------------|------------|-----------------|-------------------------|--------------------|
| PITP alpha HS residue s | | | | |
| PITPNM1 HS residue star | | 937 | 993 | 1022 |
| RDGB Beta HS residue st | | | | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | 0 | 0 | 0 |
| 56493706 | 2 | 0 | 0 | 0 |
| 23619433 | 3 | 0 | 0 | 0 |
| 56509884 | 4 | 0 | 0 | 0 |
| 22003862 | 5 | 0 | 0 | 0 |
| 62657241 | 6 | 0 | 0 | 0 |
| 32307140 | 7 | 0 | 0 | 0 |
| 50757849 | 8 | 0 | 0 | 0 |
| 47223953 | 9 | 0 | 0 | 0 |
| 49256286 | 10 | 0 | 0 | 0 |
| 62860160 | 11 | 0 | 0 | 0 |
| 62484257 | 12 | 0 | 0 | 0 |
| 50755397 | 13 | 0 | 0 | 0 |
| 47206861 | 14 | 0 | 0 | 0 |
| 17554244 | 15 | KFCYGPMDLVALSRE | GIHSVKIVVHGDRSYLDAFVAIV | AVFSVDGSLTASVSVTG |
| 39590557 | 16 | KFCYGPMDLVALSRE | GIHSVKIVVHGDRSYLDAFVAIV | AVFSVDGSLTASVSVTG |
| 24641869 | 17 | RFMYGPLDMITLHGE | GIYPVKMVVRGDHTSVDCYMAVV | VVFSIDGSFTASMSVTG |
| 54642914 | 18 | RFMYGPLDMITLHGE | GIYPVKMVVRGDHTSVDCYMAVV | VVFSIDGSFTASMSVTG |
| 55243798 | 19 | RFMYGPLDVITLAGE | GIFPVKMVVRGDHTSVDFYIAVV | IVFSIDGSFTASVSVTG |
| 48135931 | 20 | RFMYSPIDVIALTGE | GLYPVKMIVRGDHTFVDFFLTVI | VVFSIDGSFTASMSVSG |
| 18490106 | 21 | RFMYGPLDVVTLTGE | GVYPVRMVVRGDHTYAECLTVV | VVFSIDGSFTASVSVIMG |
| 56605814 | 22 | RFMYGPLDVVTLTGE | GVYPVRMVVRGDHTYAECLTVV | VVFSIDGSFTASVSVIMG |
| 6679339 | 23 | RFMYGPLDVVTLTGE | GVYPVRMVVRGDHTYAECLTVV | VVFSIDGSFTASVSVIMG |
| 55636463 | 24 | RFMYGPLDVVTLTGE | GVYPVRMVVRGDHTYAECLTVV | VVFSIDGSFTASVSVIMG |
| 47124324 | 25 | RFMYGPLDMVTLTGE | GVYPIKMVVRGDHTFADSYITVL | VVFSIDGSFAASVSVIMG |
| 62658898 | 26 | RFMYGPLDMVTLTGE | GVYPIKMVVRGDHTFADSYITVL | VVFSIDGSFAASVSVIMG |
| 24308237 | 27 | RFMYGPLDMVTLTGE | GVYPIKMVVRGDHTFADSYITVL | VVFSIDGSFAASVSVIMG |
| 47228470 | 28 | RFMYGPLDMVTLTGE | GVFPVKMVVRGDHTSADSYLTVV | VVFSIDGSFAASVSVIMG |
| 47226436 | 29 | RFMYGPLDMVTLAGE | GVYPVKMVVRGDHTFADSYLTVV | VVFSIDGSFAASVSVIMG |
| 55639157 | 30 | RFMYGPLDMVTLTGE | | 0 0 |
| 50756343 | 31 | 0 | 0 | 0 |
| 17556182 | 32 | 0 | 0 | 0 |
| 39590636 | 33 | 0 | 0 | 0 |
| 20151901 | 34 | 0 | 0 | 0 |
| 7300495 | 35 | 0 | 0 | 0 |
| 6679337 | 36 | 0 | 0 | 0 |
| 8393962 | 37 | 0 | 0 | 0 |
| 5453908 | 38 | 0 | 0 | 0 |
| 2137007 | 39 | 0 | 0 | 0 |
| 57091327 | 40 | 0 | 0 | 0 |
| 50758480 | 41 | 0 | 0 | 0 |
| 55660937 | 42 | 0 | 0 | 0 |
| 6912594 | 43 | 0 | 0 | 0 |
| 16758568 | 44 | 0 | 0 | 0 |
| 9790159 | 45 | 0 | 0 | 0 |
| 55731914 | 46 | 0 | 0 | 0 |
| 53134209 | 47 | 0 | 0 | 0 |
| 47937798 | 48 | 0 | 0 | 0 |
| 41055500 | 49 | 0 | 0 | 0 |
| 38512077 | 50 | 0 | 0 | 0 |
| 41055576 | 51 | 0 | 0 | 0 |
| 28422482 | 52 | 0 | 0 | 0 |
| 47228496 | 53 | 0 | 0 | 0 |
| 55644759 | 54 | 0 | 0 | 0 |
| 56756428 | 55 | 0 | 0 | 0 |
| 8307957 | 56 | 0 | 0 | 0 |
| 8307955 | 57 | 0 | 0 | 0 |
| 48059855 | 58 | 0 | 0 | 0 |
| 29250063 | 59 | 0 | 0 | 0 |
| 19170839 | 60 | 0 | 0 | 0 |

| Motif # | | 40 | 41 | 42 |
|-------------------------|------------|-------------------------------------------------|----------------|--------------------|
| PITP alpha HS residue s | | | | |
| PITPNM1 HS residue star | | 1040 | 1091 | 1121 |
| RDGB Beta HS residue st | | | | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | | 0 | 0 |
| 56493706 | 2 | | 0 | 0 |
| 23619433 | 3 | | 0 | 0 |
| 56509884 | 4 | | 0 | 0 |
| 22003862 | 5 | | 0 | 0 |
| 62657241 | 6 | | 0 | 0 |
| 32307140 | 7 | | 0 | 0 |
| 50757849 | 8 | | 0 | 0 |
| 47223953 | 9 | | 0 | 0 |
| 49256286 | 10 | | 0 | 0 |
| 62860160 | 11 | | 0 | 0 |
| 62484257 | 12 | | 0 | 0 |
| 50755397 | 13 | | 0 | 0 |
| 47206861 | 14 | | 0 | 0 |
| 17554244 | 15 | DPVRVPGAVDVVRYWQEQGYLIIYLTARPDMQQRVVSAWLAQHNFPH | | 0 AYGSGKDVNVYTSAGV |
| 39590557 | 16 | DPVRVPGAVDVVRYWQEQGYLIIYLTARPDMQQRVVSAWLAQHNFPH | | 0 AYGSSKDVSVYTSAGV |
| 24641869 | 17 | DPKVRAGAVDVCRWQELGYLLIYITGRPDMQQQRVVSWLSQHNFPH | FADGLSTD | AYGSSKDISVYTNVGM |
| 54642914 | 18 | DPKVRAGAVDVCRWQELGYLLIYITGRPDMQQQRVVSWLSQHNFPH | FADGLSTD | AYGSSKDISVYTNVGM |
| 55243798 | 19 | DPKVRAGAVDVCRWQELGYLLVYITGRPDMQQQRVLSWLSQHNFPH | FADGLSTD | AYGSSKDISVYTSIGL |
| 48135931 | 20 | DPKVRAGAVDIVRHWQELGYLIIYITARPDMQQQKVVSWLSQHNFPH | FADGLSTD | AYGSSKDISVYTAIINL |
| 18490106 | 21 | DPKVRAGAVDVVRHWQDSGYLIVYVTGRPDMQKHRVVAWLSQHNFPH | FCDGLTHD | GYGSPKDVAVYAALGL |
| 56605814 | 22 | DPKVRAGAVDVVRHWQDSGYLIVYVTGRPDMQKHRVVAWLSQHNFPH | FCDGLTHD | GYGSPKDVAVYAALGL |
| 6679339 | 23 | DPKVRAGAVDVVRHWQDSGYLIVYVTGRPDMQKHRVVAWLSQHNFPH | FCDGLTHD | GYGSPKDVAVYAALGL |
| 55636463 | 24 | DPKVRAGAVDVVRHWQDSGYLIVYVTGRPDMQKHRVVAWLSQHNFPH | FCDGLTHD | GYGSPKDVAVYAALGL |
| 47124324 | 25 | DPKVRAGAVDVVRHWQDLGYLIIYVTGRPDMQQRVVAWLAQHNFPH | FCDGLVHD | AYGSTKDVAVYNSISL |
| 62658898 | 26 | DPKVRAGAVDVVRHWQDLGYLIIYVTGRPDMQQRVVAWLAQHNFPH | FCDGLVHD | AYGSTKDVAVYNSISL |
| 24308237 | 27 | DPKVRAGAVDVVRHWQDLGYLIIYVTGRPDMQQRVVAWLAQHNFPH | FCDGLVHD | AYGSTKDVAVYSAISL |
| 47228470 | 28 | DPKVRAGAVDVVRYWQDLGYLIIYVTGRPDMQQRVVAWLSQHNFPH | FCDGLVHD | AYGSTKDISVYSSIGL |
| 47226436 | 29 | DPKVRAGAVDVVRHWQDLGYLIIYVTGRPDMQQRVVAWLSQHNFPH | FCDGLVHD | |
| 55639157 | 30 | | 0 | 0 |
| 50756343 | 31 | | 0 | 0 |
| 17556182 | 32 | | 0 | 0 |
| 39590636 | 33 | | 0 | 0 |
| 20151901 | 34 | | 0 | 0 |
| 7300495 | 35 | | 0 | 0 |
| 6679337 | 36 | | 0 | 0 |
| 8393962 | 37 | | 0 | 0 |
| 5453908 | 38 | | 0 | 0 |
| 2137007 | 39 | | 0 | 0 |
| 57091327 | 40 | | 0 | 0 |
| 50758480 | 41 | | 0 | 0 |
| 55660937 | 42 | | 0 | 0 |
| 6912594 | 43 | | 0 | 0 |
| 16758568 | 44 | | 0 | 0 |
| 9790159 | 45 | | 0 | 0 |
| 55731914 | 46 | | 0 | 0 |
| 53134209 | 47 | | 0 | 0 |
| 47937798 | 48 | | 0 | 0 |
| 41055500 | 49 | | 0 | 0 |
| 38512077 | 50 | | 0 | 0 |
| 41055576 | 51 | | 0 | 0 |
| 28422482 | 52 | | 0 | 0 |
| 47228496 | 53 | | 0 | 0 |
| 55644759 | 54 | | 0 | 0 |
| 56756428 | 55 | | 0 | 0 |
| 8307957 | 56 | | 0 | 0 |
| 8307955 | 57 | | 0 | 0 |
| 48059855 | 58 | | 0 | 0 |
| 29250063 | 59 | | 0 | 0 |
| 19170839 | 60 | | 0 | 0 |

| Motif # | | 43 | 44 | 45 | 46 |
|-------------------------|------------|---------------------------|----------------|----------------|----------------|
| PITP alpha HS residue s | | | | | |
| PITPNM1 HS residue star | | 1142 | 1220 | | |
| RDGB Beta HS residue st | | | | | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | | 0 | 0 | 0 |
| 56493706 | 2 | | 0 | 0 | 0 |
| 23619433 | 3 | | 0 | 0 | 0 |
| 56509884 | 4 | | 0 | 0 | 0 |
| 22003862 | 5 | | 0 | 0 | 0 |
| 62657241 | 6 | | 0 | 0 | 0 |
| 32307140 | 7 | | 0 | 0 | 0 |
| 50757849 | 8 | | 0 | 0 | 0 |
| 47223953 | 9 | | 0 | 0 | 0 |
| 49256286 | 10 | | 0 | 0 | 0 |
| 62860160 | 11 | | 0 | 0 | 0 |
| 62484257 | 12 | | 0 | 0 | 0 |
| 50755397 | 13 | | 0 | 0 | 0 |
| 47206861 | 14 | | 0 | 0 | 0 |
| 17554244 | 15 | | 0 | 0 | 0 |
| 39590557 | 16 | | 0 | 0 | DGKNEENE |
| 24641869 | 17 | FIVGKVGKKLQSNATVLSDGyAAHL | PGTASGAS | | 0 |
| 54642914 | 18 | FIVGKVSKKLQSNAIVLSDGyAAHL | | 0 | 0 |
| 55243798 | 19 | | 0 | 0 | 0 |
| 48135931 | 20 | FIIGKVSKKYHALATILHDGyAAHL | | 0 | 0 |
| 18490106 | 21 | YIVGRAVRKLQAQCQFLSDGyVAHL | PGTPPTTL | | 0 |
| 56605814 | 22 | YIVGRAVRKLQAQCQFLSDGyVAHL | PGTPPTTL | | 0 |
| 6679339 | 23 | YIVGRAVRKLQAQCQFLSDGyVAHL | PASQTAAP | PGTPPTTL | 0 |
| 55636463 | 24 | YIVGRAVRKLQAQCQFLSDGyVAHL | PSTPTSTS | PAAPSTTS | 0 |
| 47124324 | 25 | YIVGRPTKKLQQQCQFITDGyAAHL | | 0 | 0 |
| 62658898 | 26 | YIVGRPTKKLQQQCQFITDGyAAHL | PPSPTTQG | | 0 |
| 24308237 | 27 | YIVGRPTKKLQQQCQFITDGyAAHL | | 0 | 0 |
| 47228470 | 28 | YIVGRPTKKMQSQCVRERRGRHRR | PPVPAAVQ | | 0 |
| 47226436 | 29 | | 0 | 0 | 0 |
| 55639157 | 30 | | 0 | 0 | 0 |
| 50756343 | 31 | | 0 | 0 | 0 |
| 17556182 | 32 | | 0 | 0 | 0 |
| 39590636 | 33 | | 0 | 0 | 0 |
| 20151901 | 34 | | 0 | 0 | 0 |
| 7300495 | 35 | | 0 | 0 | 0 |
| 6679337 | 36 | | 0 | 0 | 0 |
| 8393962 | 37 | | 0 | 0 | 0 |
| 5453908 | 38 | | 0 | 0 | 0 |
| 2137007 | 39 | | 0 | 0 | 0 |
| 57091327 | 40 | | 0 | 0 | 0 |
| 50758480 | 41 | | 0 | 0 | 0 |
| 55660937 | 42 | | 0 | 0 | 0 |
| 6912594 | 43 | | 0 | 0 | 0 |
| 16758568 | 44 | | 0 | 0 | 0 |
| 9790159 | 45 | | 0 | 0 | 0 |
| 55731914 | 46 | | 0 | 0 | 0 |
| 53134209 | 47 | | 0 | 0 | 0 |
| 47937798 | 48 | | 0 | 0 | 0 |
| 41055500 | 49 | | 0 | 0 | 0 |
| 38512077 | 50 | | 0 | 0 | 0 |
| 41055576 | 51 | | 0 | 0 | 0 |
| 28422482 | 52 | | 0 | 0 | 0 |
| 47228496 | 53 | | 0 | 0 | 0 |
| 55644759 | 54 | | 0 | 0 | 0 |
| 56756428 | 55 | | 0 | 0 | 0 |
| 8307957 | 56 | | 0 | 0 | 0 |
| 8307955 | 57 | | 0 | 0 | 0 |
| 48059855 | 58 | | 0 | 0 | 0 |
| 29250063 | 59 | | 0 | 0 | 0 |
| 19170839 | 60 | | 0 | 0 | 0 |

| Motif # | | 47 | 48 | 49 |
|-------------------------|------------|----------------|----------------|----------------|
| PITP alpha HS residue s | | | | |
| PITPNM1 HS residue star | | | | |
| RDGB Beta HS residue st | | | | |
| Protein GI | Tracking # | Motif Sequence | Motif Sequence | Motif Sequence |
| 23485539 | 1 | 0 | 0 | 0 |
| 56493706 | 2 | 0 | 0 | 0 |
| 23619433 | 3 | 0 | 0 | 0 |
| 56509884 | 4 | 0 | 0 | 0 |
| 22003862 | 5 | 0 | 0 | 0 |
| 62657241 | 6 | 0 | 0 | 0 |
| 32307140 | 7 | 0 | 0 | 0 |
| 50757849 | 8 | 0 | 0 | 0 |
| 47223953 | 9 | 0 | 0 | 0 |
| 49256286 | 10 | 0 | 0 | 0 |
| 62860160 | 11 | 0 | 0 | 0 |
| 62484257 | 12 | 0 | 0 | 0 |
| 50755397 | 13 | 0 | 0 | 0 |
| 47206861 | 14 | 0 | 0 | 0 |
| 17554244 | 15 | 0 | 0 | 0 |
| 39590557 | 16 | 0 | 0 | 0 |
| 24641869 | 17 | 0 | 0 | 0 |
| 54642914 | 18 | 0 | 0 | 0 |
| 55243798 | 19 | 0 | 0 | 0 |
| 48135931 | 20 | 0 | 0 | 0 |
| 18490106 | 21 | 0 | 0 | 0 |
| 56605814 | 22 | 0 | 0 | 0 |
| 6679339 | 23 | 0 | 0 | 0 |
| 55636463 | 24 | 0 | 0 | 0 |
| 47124324 | 25 | 0 | 0 | 0 |
| 62658898 | 26 | 0 | 0 | 0 |
| 24308237 | 27 | 0 | 0 | 0 |
| 47228470 | 28 | 0 | 0 | 0 |
| 47226436 | 29 | 0 | 0 | 0 |
| 55639157 | 30 | 0 | 0 | 0 |
| 50756343 | 31 | 0 | 0 | 0 |
| 17556182 | 32 | 0 | 0 | 0 |
| 39590636 | 33 | 0 | 0 | 0 |
| 20151901 | 34 | 0 | 0 | 0 |
| 7300495 | 35 | 0 | 0 | 0 |
| 6679337 | 36 | 0 | 0 | 0 |
| 8393962 | 37 | 0 | 0 | 0 |
| 5453908 | 38 | 0 | 0 | 0 |
| 2137007 | 39 | 0 | 0 | 0 |
| 57091327 | 40 | 0 | 0 | 0 |
| 50758480 | 41 | 0 | 0 | 0 |
| 55660937 | 42 | 0 | 0 | 0 |
| 6912594 | 43 | 0 | 0 | 0 |
| 16758568 | 44 | 0 | 0 | 0 |
| 9790159 | 45 | 0 | 0 | 0 |
| 55731914 | 46 | 0 | 0 | 0 |
| 53134209 | 47 | 0 | 0 | 0 |
| 47937798 | 48 | 0 | 0 | 0 |
| 41055500 | 49 | 0 | 0 | 0 |
| 38512077 | 50 | 0 | 0 | 0 |
| 41055576 | 51 | 0 | 0 | 0 |
| 28422482 | 52 | 0 | 0 | 0 |
| 47228496 | 53 | 0 | 0 | 0 |
| 55644759 | 54 | 0 | 0 | 0 |
| 56756428 | 55 | 0 | 0 | 0 |
| 8307957 | 56 | 0 | 0 | 0 |
| 8307955 | 57 | 0 | 0 | 0 |
| 48059855 | 58 | 0 | 0 | 0 |
| 29250063 | 59 | 0 | 0 | 0 |
| 19170839 | 60 | 0 | 0 | 0 |