

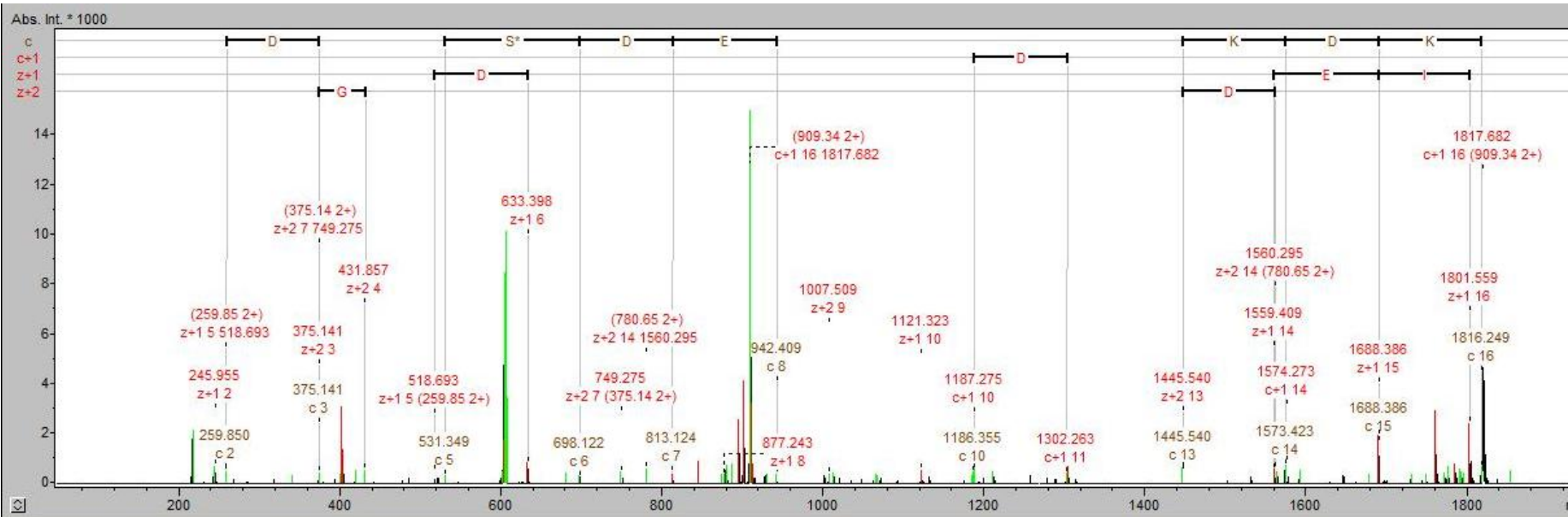
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **IEDVGSDEEDDSGK** (Peptide Mods: 6: Phospho (ST))

MH+(mono): 1574.574 MH+(avg): 1575.415 MS/MS Tol: 0.500 Da Peaks: 64 Above Threshold: 64 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 21 Not Assigned: 43 1+, m/z: 0.000

| | I | E | D | V | G | S | D | E | E | D | D | S | G | K | Ile | Glu | Asp | Val | Gly | Ser | Asp | Glu | Glu | Asp | Asp | Ser | Gly | Lys | |
|------|----|----|----|----|----|----|---|---|---|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | - | 114.091 | 243.134 | 358.161 | 457.229 | 514.251 | 681.249 | 796.276 | 925.319 | 1054.361 | 1169.388 | 1284.415 | 1371.447 | 1428.469 | 1556.564 |
| b-17 | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1539.537 |
| b-18 | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | - | 225.123 | 340.150 | 439.219 | 496.240 | 663.239 | 778.265 | 907.308 | 1036.351 | 1151.378 | 1266.405 | 1353.437 | 1410.458 | 1538.553 | |
| b-Pi | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | - | - | - | - | - | 583.272 | 698.299 | 827.342 | 956.384 | 1071.411 | 1186.438 | 1273.470 | 1330.492 | 1458.587 | |
| y | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | 147.113 | 204.134 | 291.166 | 406.193 | 521.220 | 650.263 | 779.305 | 894.332 | 1061.331 | 1118.352 | 1217.421 | 1332.447 | 1461.490 | 1574.574 | |
| y-17 | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | 130.086 | 187.108 | 274.140 | 389.167 | 504.194 | 633.236 | 762.279 | 877.306 | 1044.304 | 1101.326 | 1200.394 | 1315.421 | 1444.464 | 1557.548 | |
| y-18 | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | - | - | 273.156 | 388.183 | 503.210 | 632.252 | 761.295 | 876.322 | 1043.320 | 1100.342 | 1199.410 | 1314.437 | 1443.480 | 1556.564 | |
| y-Pi | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | - | - | 193.189 | 308.216 | 423.243 | 552.286 | 681.328 | 796.355 | 963.354 | 1020.375 | 1119.444 | 1234.471 | 1363.513 | 1476.597 | |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Gly | Ser | Asp | Asp | Glu | Glu | Asp | Ser | Gly | Val | Asp | Glu | Ile | |



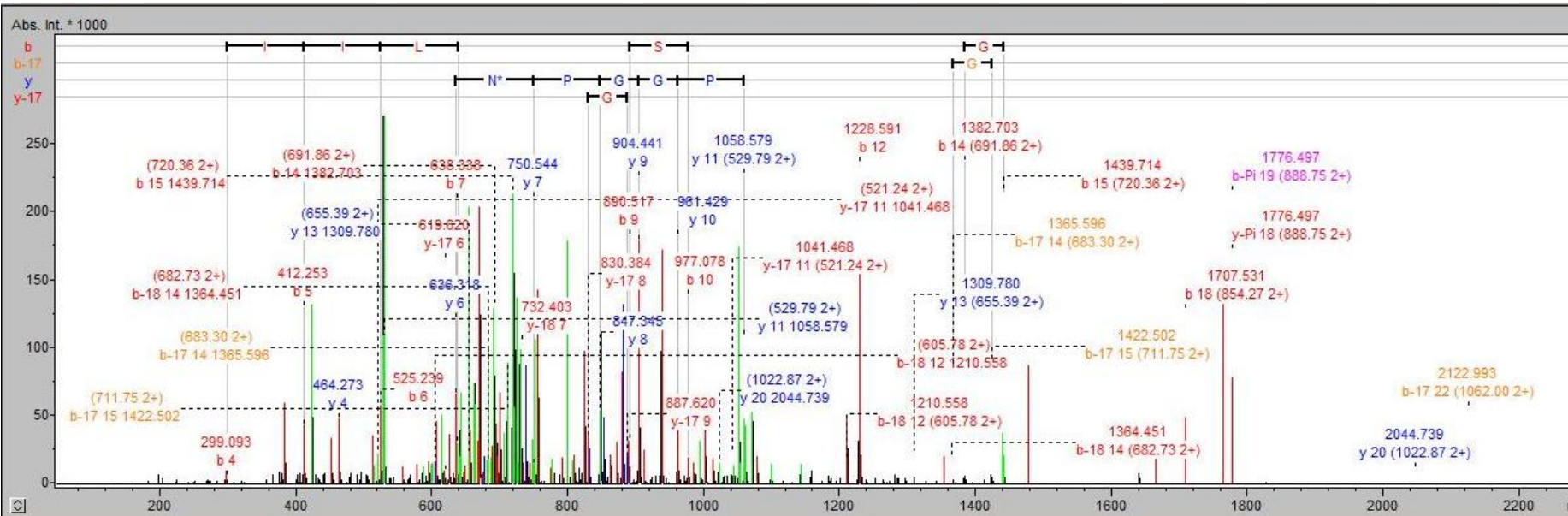
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: IEDVGSDEEDDSGKDK (Peptide Mods: 6: Phospho (ST))

MH+(mono): 1817.696 MH+(avg): 1818.675 MS/MS Tol: 0.500 Da Peaks: 69 Above Threshold: 69 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 29 Not Assigned: 40 1+, m/z: 0.000

| | I | E | D | V | G | S | D | E | E | D | D | S | G | K | D | K | Ile | Glu | Asp | Val | Gly | Ser | Asp | Glu | Glu | Asp | Asp | Ser | Gly | Lys |
|-----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|-----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| c | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | D | K | 131.118 | 260.160 | 375.187 | 474.256 | 531.277 | 698.276 | 813.303 | 942.345 | 1071.388 | 1186.415 | 1301.442 | 1388.474 | 1445.495 | 157 |
| c+1 | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | D | K | 132.126 | 261.168 | 376.195 | 475.264 | 532.285 | 699.283 | 814.310 | 943.353 | 1072.396 | 1187.423 | 1302.450 | 1389.482 | 1446.503 | 157 |
| z | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | D | K | 130.086 | 245.113 | 373.208 | 430.230 | 517.262 | 632.289 | 747.316 | 876.358 | 1005.401 | 1120.428 | 1287.426 | 1344.447 | 1443.516 | 155 |
| z+1 | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | D | K | 131.094 | 246.121 | 374.216 | 431.237 | 518.269 | 633.296 | 748.323 | 877.366 | 1006.409 | 1121.435 | 1288.434 | 1345.455 | 1444.524 | 155 |
| z+2 | I | E | D | V | G | S* | D | E | E | D | D | S | G | K | D | K | 132.102 | 247.129 | 375.224 | 432.245 | 519.277 | 634.304 | 749.331 | 878.374 | 1007.416 | 1122.443 | 1289.442 | 1346.463 | 1445.532 | 156 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Asp | Lys | Gly | Ser | Asp | Asp | Glu | Glu | Asp | Ser | Gly | Val | As |



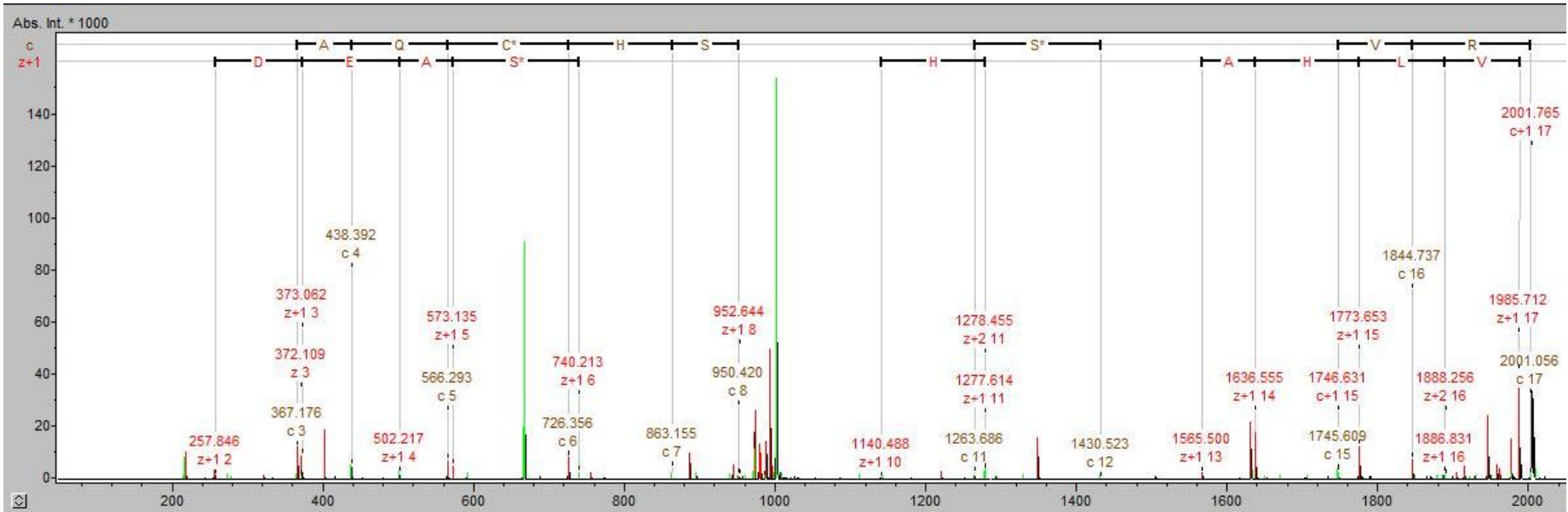
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: A I G G I I L T A S H N P G G P N G D F G I K (Peptide Mods: 17: Deamidated (NQ) 8: Phospho (ST))

MH+(mono): 2286.128 MH+(avg): 2287.449 MS/MS Tol: 0.500 Da Peaks: 108 Above Threshold: 108 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 31 Not Assigned: 77 1+, m/z: 0.000

| | A | I | G | G | I | I | L | T | A | S | H | N | P | G | G | P | N | G | D | F | G | I | K | Ala | Ile | Gly | Gly | Ile | Ile | Leu | Thr | Ala | Ser | His | Asn | | |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|---|-------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| b | A | I | G | G | I | I | L | T* | A | S | H | N | P | G | G | P | N* | G | D | F | G | I | K | 72.044 | 185.128 | 242.150 | 299.171 | 412.255 | 525.340 | 638.424 | 819.438 | 890.475 | 977.507 | 1114.566 | 1228. | | |
| b-17 | A | I | G | G | I | I | L | T* | A | S | H | N | P | G | G | P | N* | G | D | F | G | I | K | - | - | - | - | - | - | - | - | - | - | - | - | - | 1211. |
| b-18 | A | I | G | G | I | I | L | T* | A | S | H | N | P | G | G | P | N* | G | D | F | G | I | K | - | - | - | - | - | - | - | 801.427 | 872.464 | 959.496 | 1096.555 | 1210. | | |
| b-Pi | A | I | G | G | I | I | L | T* | A | S | H | N | P | G | G | P | N* | G | D | F | G | I | K | 25.933 | - | - | - | - | - | - | 773.326 | 844.363 | 931.395 | 1068.454 | 1182. | | |
| y | A | I | G | G | I | I | L | T* | A | S | H | N | P | G | G | P | N* | G | D | F | G | I | K | 147.113 | 260.197 | 317.218 | 464.287 | 579.314 | 636.335 | 750.378 | 847.431 | 904.452 | 961.474 | 1058.527 | 1172. | | |
| y-17 | A | I | G | G | I | I | L | T* | A | S | H | N | P | G | G | P | N* | G | D | F | G | I | K | 130.086 | 243.170 | 300.192 | 447.260 | 562.287 | 619.309 | 733.352 | 830.404 | 887.426 | 944.447 | 1041.500 | 1155. | | |
| y-18 | A | I | G | G | I | I | L | T* | A | S | H | N | P | G | G | P | N* | G | D | F | G | I | K | - | - | - | - | 561.303 | 618.325 | 732.368 | 829.420 | 886.442 | 943.463 | 1040.516 | 1154. | | |
| y-Pi | A | I | G | G | I | I | L | T* | A | S | H | N | P | G | G | P | N* | G | D | F | G | I | K | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Ile | Gly | Phe | Asp | Gly | Asn | Pro | Gly | Gly | Pro | Asn | | |

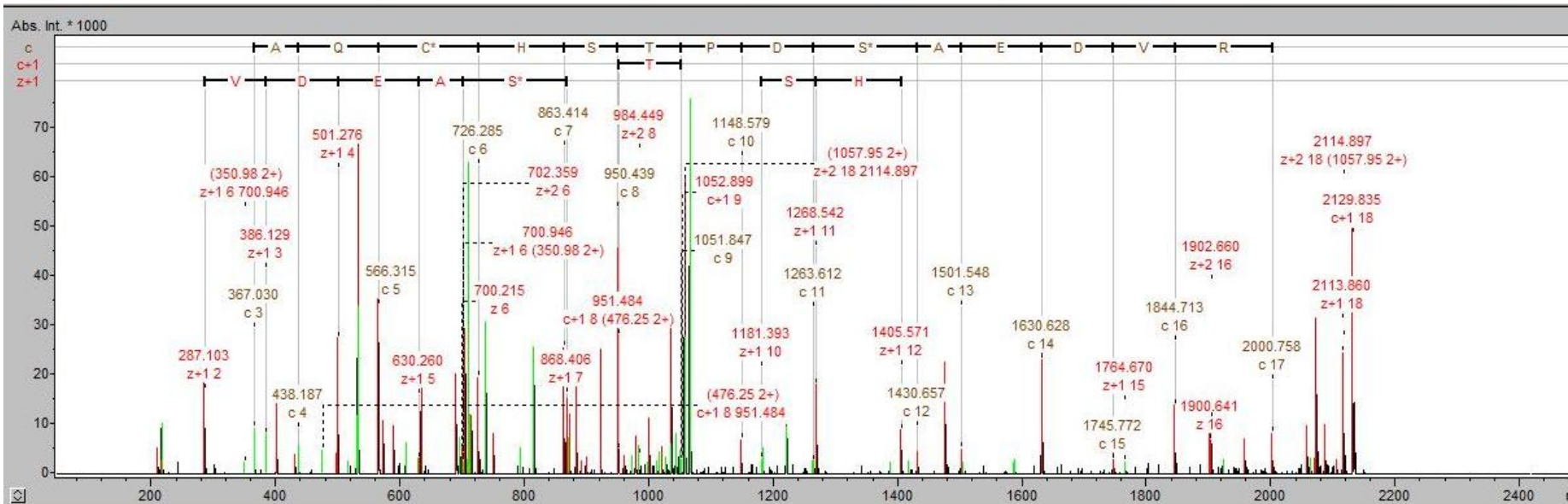


Sequence: VLHAQCHSTPDAEDVR (Peptide Mods: 12: Phospho (ST) 6: Carbamidomethyl (C))

MH+(mono): 2001.848 MH+(avg): 2003.034 MS/MS To: 0.500 Da Peaks: 85 Above Threshold: 85 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 29 Not Assigned: 56 1+, m/z: 0.000

| | V | L | H | A | Q | C | H | S | T | P | D | S | A | E | D | V | R | Val | Leu | His | Ala | Gln | Cys | His | Ser | Thr | Pro | Asp | Ser | Ala | |
|-----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| c | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | 117.102 | 230.186 | 367.245 | 438.282 | 566.341 | 726.372 | 863.430 | 950.462 | 1051.510 | 1148.563 | 1263.590 | 1430.588 | 1501.625 | |
| c+1 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | 118.110 | 231.194 | 368.253 | 439.290 | 567.349 | 727.379 | 864.438 | 951.470 | 1052.518 | 1149.571 | 1264.598 | 1431.596 | 1502.633 | |
| z | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | 158.092 | 257.161 | 372.188 | 501.230 | 572.267 | 739.266 | 854.293 | 951.346 | 1052.393 | 1139.425 | 1276.484 | 1436.515 | 1564.573 | |
| z+1 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | 159.100 | 258.169 | 373.196 | 502.238 | 573.275 | 740.274 | 855.301 | 952.353 | 1053.401 | 1140.433 | 1277.492 | 1437.523 | 1565.581 | |
| z+2 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | 160.108 | 259.176 | 374.203 | 503.246 | 574.283 | 741.281 | 856.308 | 953.361 | 1054.409 | 1141.441 | 1278.500 | 1438.530 | 1566.589 | |
| | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Val | Asp | Glu | Ala | Ser | Asp | Pro | Thr | Ser | His | Cys | Gln | |



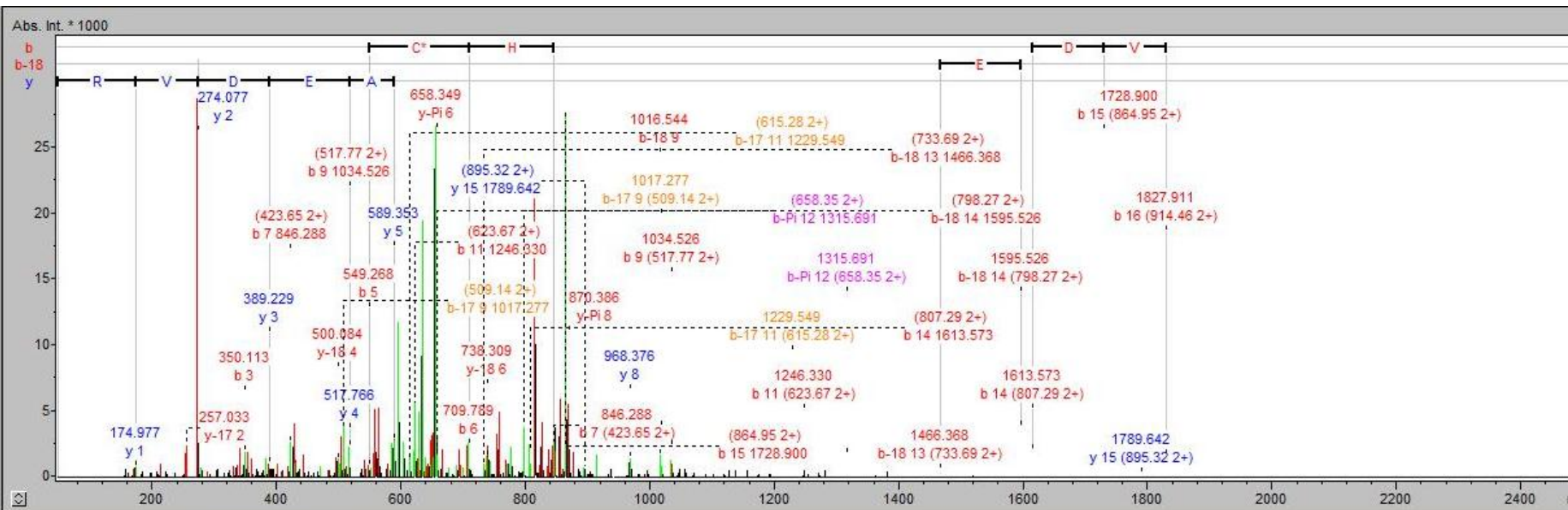
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: VLHAQCHSTPDSEAEDVR (Peptide Mods: 12: Phospho (ST) 6: Carbamidomethyl (C))

MH+(mono): 2129.943 MH+(avg): 2131.206 MS/MS Tol: 0.500 Da Peaks: 108 Above Threshold: 108 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 35 Not Assigned: 73 1+, m/z: 0.000

| | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | K | Val | Leu | His | Ala | Gln | Cys | His | Ser | Thr | Pro | Asp | Ser | Ala |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| c | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | K | 117.102 | 230.186 | 367.245 | 438.282 | 566.341 | 726.372 | 863.430 | 950.462 | 1051.510 | 1148.563 | 1263.590 | 1430.588 | 1501.625 |
| c+1 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | K | 118.110 | 231.194 | 368.253 | 439.290 | 567.349 | 727.379 | 864.438 | 951.470 | 1052.518 | 1149.571 | 1264.598 | 1431.596 | 1502.633 |
| z | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | K | 130.086 | 286.187 | 385.256 | 500.283 | 629.325 | 700.362 | 867.361 | 982.388 | 1079.440 | 1180.488 | 1267.520 | 1404.579 | 1564.610 |
| z+1 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | K | 131.094 | 287.195 | 386.264 | 501.291 | 630.333 | 701.370 | 868.369 | 983.396 | 1080.448 | 1181.496 | 1268.528 | 1405.587 | 1565.618 |
| z+2 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | K | 132.102 | 288.203 | 387.271 | 502.298 | 631.341 | 702.378 | 869.376 | 984.403 | 1081.456 | 1182.504 | 1269.536 | 1406.595 | 1566.625 |
| | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Arg | Val | Asp | Glu | Ala | Ser | Asp | Pro | Thr | Ser | His | Cys |



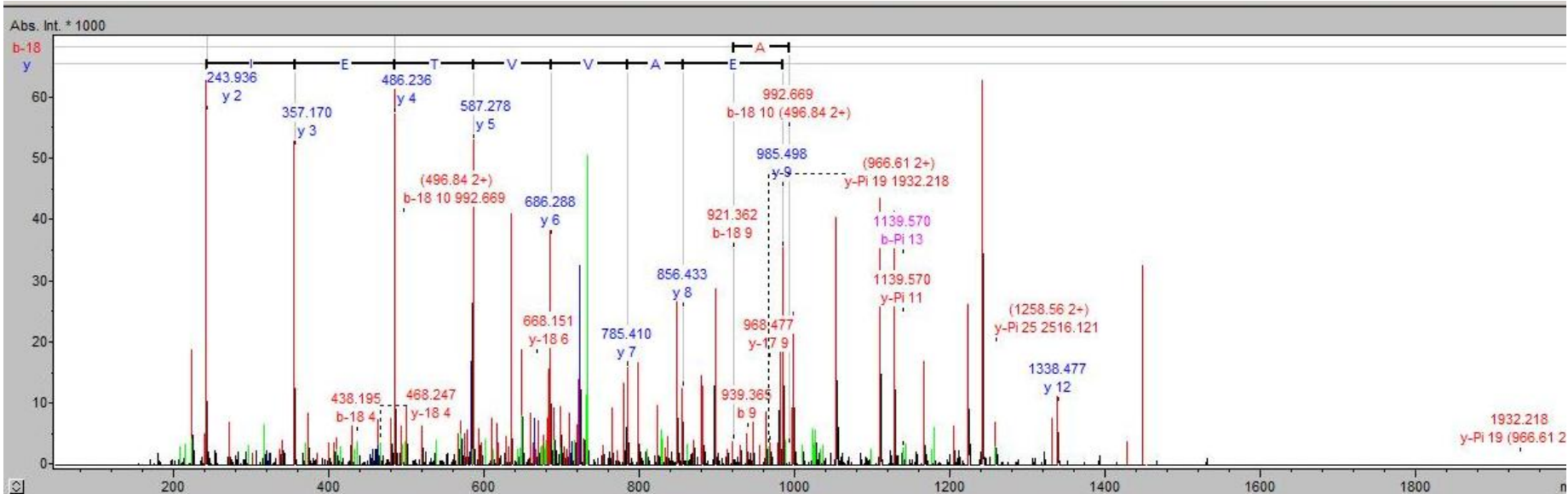
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: VLHAQC^{C*}HSTPD^SAEDV^R (Peptide Mods: 12: Phospho (ST) 6: Carbamidomethyl (C))

MH+(mono): 2001.848 MH+(avg): 2003.034 MS/MS Tol: 0.500 Da Peaks: 109 Above Threshold: 109 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 27 Not Assigned: 82 1+, m/z: 0.000

| | V | L | H | A | Q | C | H | S | T | P | D | S | A | E | D | V | R | Val | Leu | His | Ala | Gln | Cys | His | Ser | Thr | Pro | Asp | Ser | Ala | |
|------|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | 100.076 | 213.160 | 350.219 | 421.256 | 549.314 | 709.345 | 846.404 | 933.436 | 1034.484 | 1131.536 | 1246.563 | 1413.562 | 1484.599 | |
| b-17 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | - | - | - | - | 532.288 | 692.318 | 829.377 | 916.409 | 1017.457 | 1114.510 | 1229.537 | 1396.535 | 1467.572 | |
| b-18 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | - | - | - | - | - | - | - | 915.425 | 1016.473 | 1113.526 | 1228.553 | 1395.551 | 1466.588 | |
| b-Pi | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | - | - | - | - | - | - | - | 835.459 | 936.507 | 1033.559 | 1148.586 | 1315.585 | 1386.622 | |
| y | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | 175.119 | 274.187 | 389.214 | 518.257 | 589.294 | 756.292 | 871.319 | 968.372 | 1069.420 | 1156.452 | 1293.511 | 1453.541 | 1581.600 | |
| y-17 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | 158.092 | 257.161 | 372.188 | 501.230 | 572.267 | 739.266 | 854.293 | 951.346 | 1052.393 | 1139.425 | 1276.484 | 1436.515 | 1564.573 | |
| y-18 | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | - | - | 371.204 | 500.246 | 571.283 | 738.282 | 853.309 | 950.362 | 1051.409 | 1138.441 | 1275.500 | 1435.531 | 1563.589 | |
| y-Pi | V | L | H | A | Q | C* | H | S | T | P | D | S* | A | E | D | V | R | - | - | - | - | - | 658.315 | 773.342 | 870.395 | 971.443 | 1058.475 | 1195.534 | 1355.564 | 1483.623 | |
| | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Val | Asp | Glu | Ala | Ser | Asp | Pro | Thr | Ser | His | Cys | Gln | |

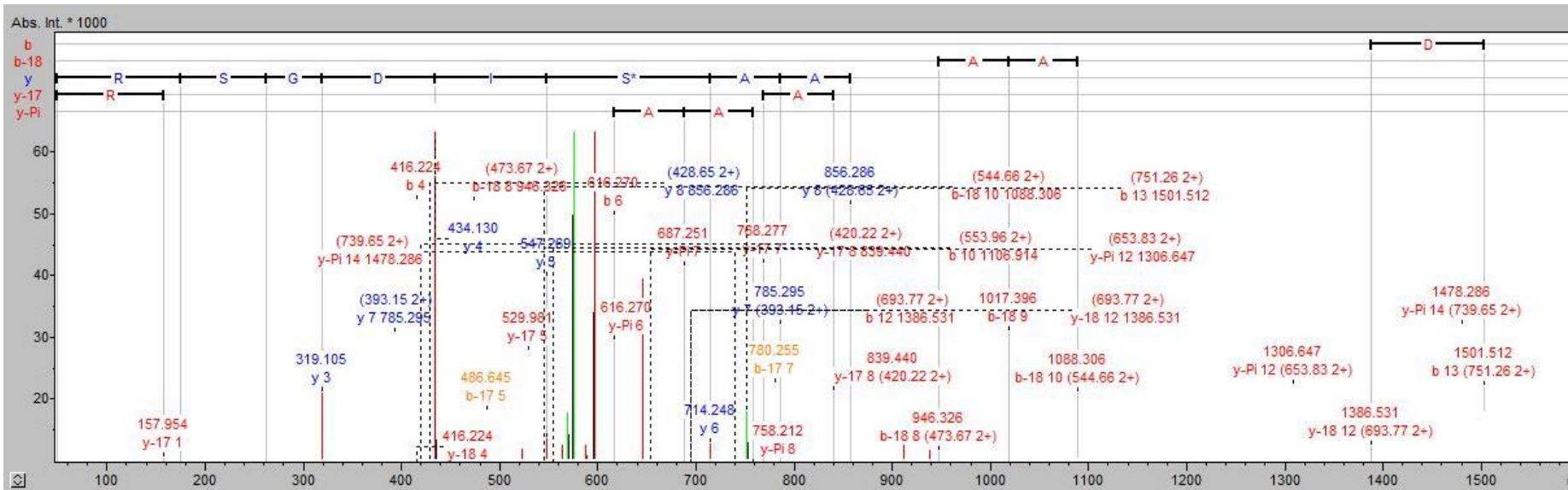


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: VVVRTALLDAAGVALLTAEAVVTEIPK (Peptide Mods: 14: Phospho (ST) 18: Phospho (ST))

MH+(mono): 2968.541 MH+(avg): 2970.232 MS/MS Tol: 0.500 Da Peaks: 142 Above Threshold: 142 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 20 Not Assigned: 122 1+, m/z: 0.000

| | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | Val | Val | Arg | Thr | Ala | Leu | Leu | Asp | Ala | Ala | |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| b | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | 100.076 | 199.144 | 355.245 | 456.293 | 527.330 | 640.414 | 753.498 | 868.525 | 939.562 | 1010.599 | 1 |
| b-17 | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | - | - | 338.219 | 439.266 | 510.303 | 623.388 | 736.472 | 851.499 | 922.536 | 993.573 | 1 |
| b-18 | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | - | - | - | 438.282 | 509.319 | 622.404 | 735.488 | 850.515 | 921.552 | 992.589 | 1 |
| b-Pi | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | - | - | - | 358.316 | 429.353 | 542.437 | 655.521 | 770.548 | 841.585 | 912.622 | 1 |
| y | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | 147.113 | 244.166 | 357.250 | 486.292 | 587.340 | 686.408 | 785.477 | 856.514 | 985.556 | 1056.594 | 1 |
| y-17 | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | 130.086 | 227.139 | 340.223 | 469.266 | 570.313 | 669.382 | 768.450 | 839.487 | 968.530 | 1039.567 | 1 |
| y-18 | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | - | - | - | 468.282 | 569.329 | 668.398 | 767.466 | 838.503 | 967.546 | 1038.583 | 1 |
| y-Pi | V | V | R | T | A | L | L | D | A | A | G | V | A | S | L | L | T | T | A | E | A | V | V | T | E | I | P | K | - | - | - | - | 489.363 | 588.431 | 687.500 | 758.537 | 887.580 | 958.617 | 1 |
| | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Pro | Ile | Glu | Thr | Val | Val | Ala | Glu | Ala | |



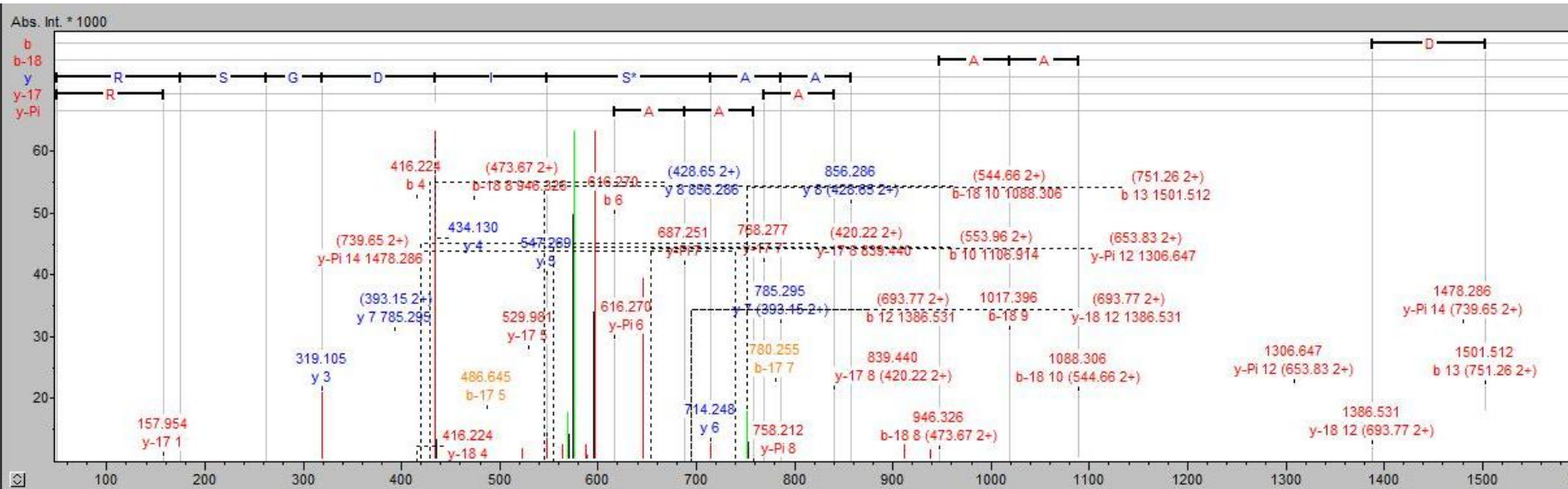
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SRTASLTSAAIDGSR (Peptide Mods: 7: Phospho (ST) 8: Phospho (ST) 11: Phospho (ST))

MH+(mono): 1819.702 MH+(avg): 1820.619 MS/MS Tol: 0.500 Da Peaks: 137 Above Threshold: 137 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 30 Not Assigned: 107 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | G |
|------|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 88.039 | 244.140 | 345.188 | 416.225 | 503.257 | 616.341 | 797.355 | 964.354 | 1035.391 | 1106.428 | 1273.426 | 1386.510 | 1501.537 | 15 |
| b-17 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 227.114 | 328.162 | 399.199 | 486.231 | 599.315 | 780.329 | 947.327 | 1018.364 | 1089.401 | 1256.400 | 1369.484 | 1484.511 | 15 |
| b-18 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 70.029 | 226.130 | 327.178 | 398.215 | 485.247 | 598.331 | 779.345 | 946.343 | 1017.380 | 1088.417 | 1255.416 | 1368.500 | 1483.527 | 15 |
| b-Pi | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 166.039 | 267.086 | 338.123 | 425.156 | 538.240 | 719.254 | 886.252 | 957.289 | 1028.326 | 1195.325 | 1308.409 | 1423.436 | 14 |
| y | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 1023.354 | 1204.368 | 1317.452 | 1404.484 | 1475.522 | 15 |
| y-17 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 1006.328 | 1187.342 | 1300.426 | 1387.458 | 1458.495 | 15 |
| y-18 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 1005.344 | 1186.358 | 1299.442 | 1386.474 | 1457.511 | 15 |
| y-Pi | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 925.378 | 1106.392 | 1219.476 | 1306.508 | 1377.545 | 14 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | T |



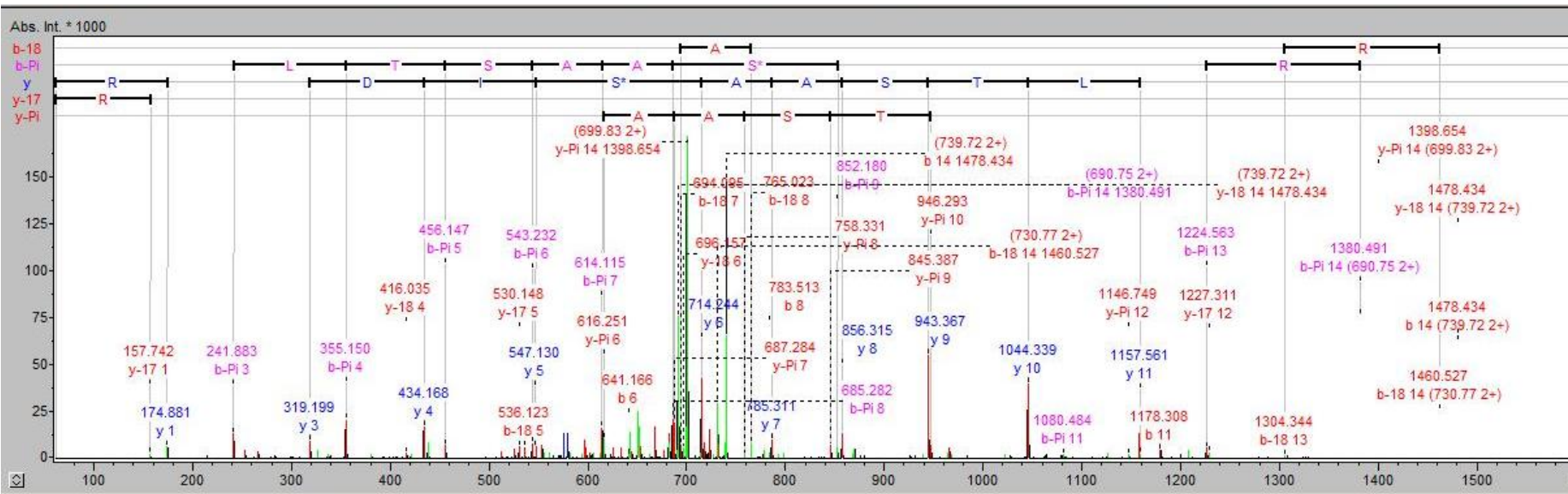
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SRTASLTSAAIDGSR (Peptide Mods: 7: Phospho (ST) 8: Phospho (ST) 11: Phospho (ST))

MH+(mono): 1819.702 MH+(avg): 1820.619 MS/MS Tol: 0.500 Da Peaks: 137 Above Threshold: 137 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 30 Not Assigned: 107 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S* | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | G |
|------|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 88.039 | 244.140 | 345.188 | 416.225 | 503.257 | 616.341 | 797.355 | 964.354 | 1035.391 | 1106.428 | 1273.426 | 1386.510 | 1501.537 | 15 |
| b-17 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 227.114 | 328.162 | 399.199 | 486.231 | 599.315 | 780.329 | 947.327 | 1018.364 | 1089.401 | 1256.400 | 1369.484 | 1484.511 | 15 |
| b-18 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 70.029 | 226.130 | 327.178 | 398.215 | 485.247 | 598.331 | 779.345 | 946.343 | 1017.380 | 1088.417 | 1255.416 | 1368.500 | 1483.527 | 15 |
| b-Pi | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 166.039 | 267.086 | 338.123 | 425.156 | 538.240 | 719.254 | 886.252 | 957.289 | 1028.326 | 1195.325 | 1308.409 | 1423.436 | 14 |
| y | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 1023.354 | 1204.368 | 1317.452 | 1404.484 | 1475.522 | 15 |
| y-17 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 1006.328 | 1187.342 | 1300.426 | 1387.458 | 1458.495 | 15 |
| y-18 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 1005.344 | 1186.358 | 1299.442 | 1386.474 | 1457.511 | 15 |
| y-Pi | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 925.378 | 1106.392 | 1219.476 | 1306.508 | 1377.545 | 14 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | T |



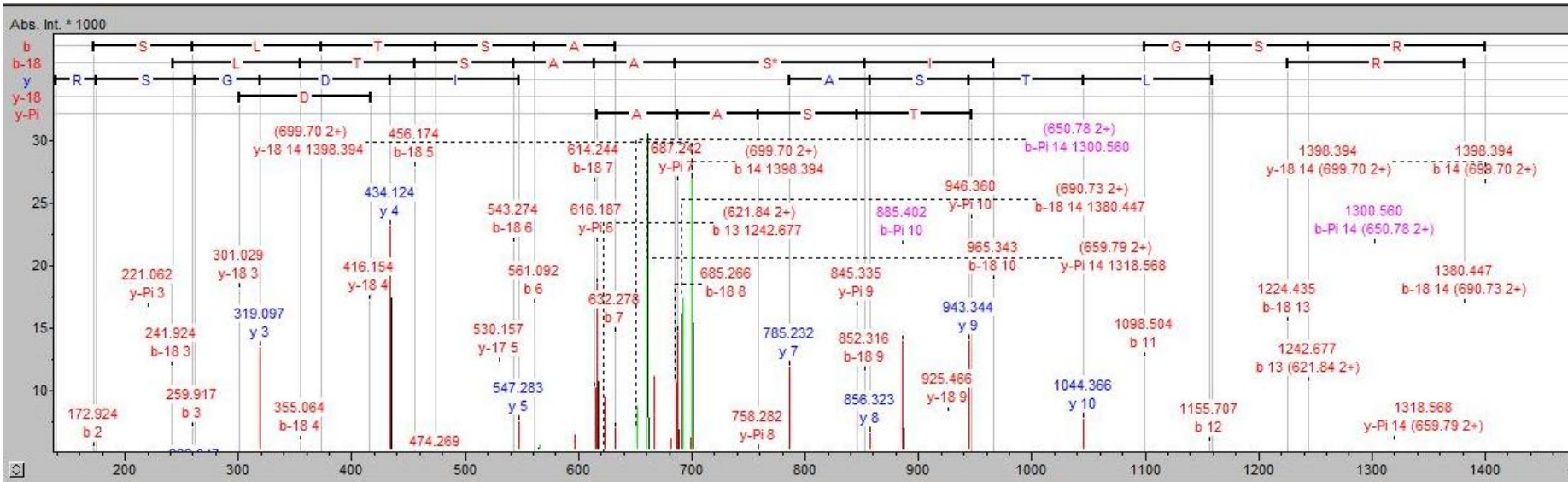
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **TASLTSAA SIDGSR (Peptide Mods: 1: Phospho (ST) 9: Phospho (ST))**

MH+(mono): 1496.603 MH+(avg): 1497.376 MS/MS Tol: 0.500 Da Peaks: 93 Above Threshold: 93 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 42 Not Assigned: 51 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 182.021 | 253.058 | 340.090 | 453.174 | 554.222 | 641.254 | 712.291 | 783.328 | 950.327 | 1063.411 | 1178.438 | 1235.459 | 1322.491 | 1478.592 |
| b-17 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | | | | | | | | | | | | | | 1461.566 |
| b-18 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 164.011 | 235.048 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 932.316 | 1045.400 | 1160.427 | 1217.449 | 1304.481 | 1460.582 |
| b-Pi | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| y | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1496.603 |
| y-17 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1479.576 |
| y-18 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1478.592 |
| y-Pi | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1398.626 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | |



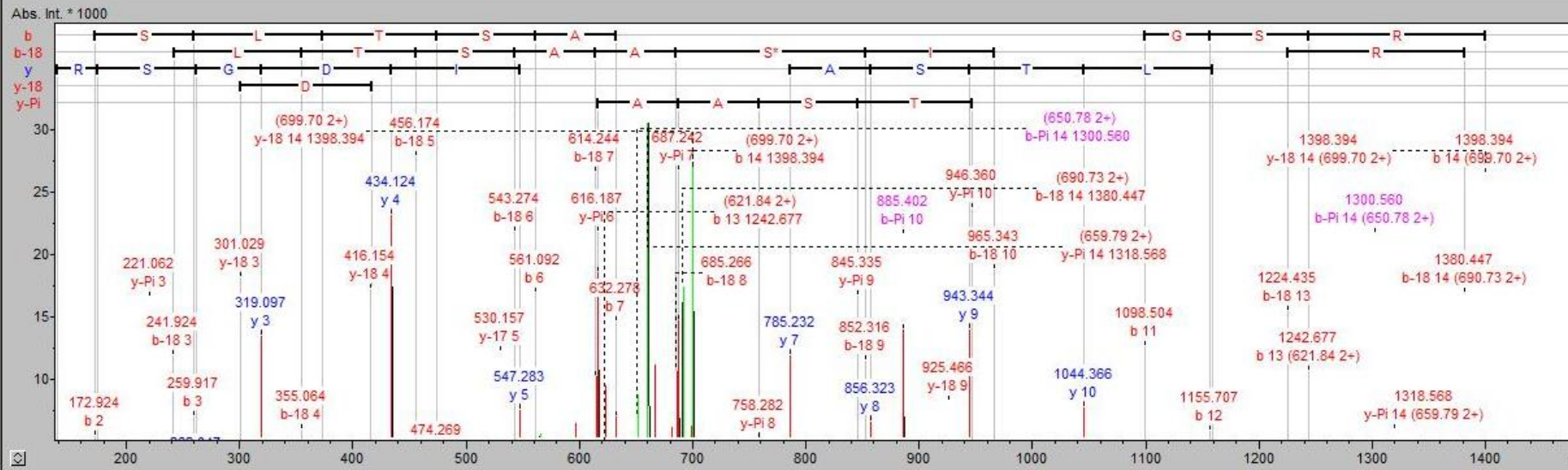
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: TASLTSAA SIDGSR (Peptide Mods: 9: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS Tol: 0.500 Da Peaks: 139 Above Threshold: 139 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 44 Not Assigned: 95 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 102.055 | 173.092 | 260.124 | 373.208 | 474.256 | 561.288 | 632.325 | 703.362 | 870.360 | 983.445 | 1098.471 | 1155.493 | 1242.525 | 1398.626 | |
| b-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1381.600 |
| b-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 | |
| b-Pi | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 4.078 | 75.115 | 162.147 | 275.231 | 376.279 | 463.311 | 534.348 | 605.385 | 772.384 | 885.468 | 1000.495 | 1057.516 | 1144.548 | 1300.649 | |
| y | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1416.637 | |
| y-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1399.610 | |
| y-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1398.626 | |
| y-Pi | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1318.660 | |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | |



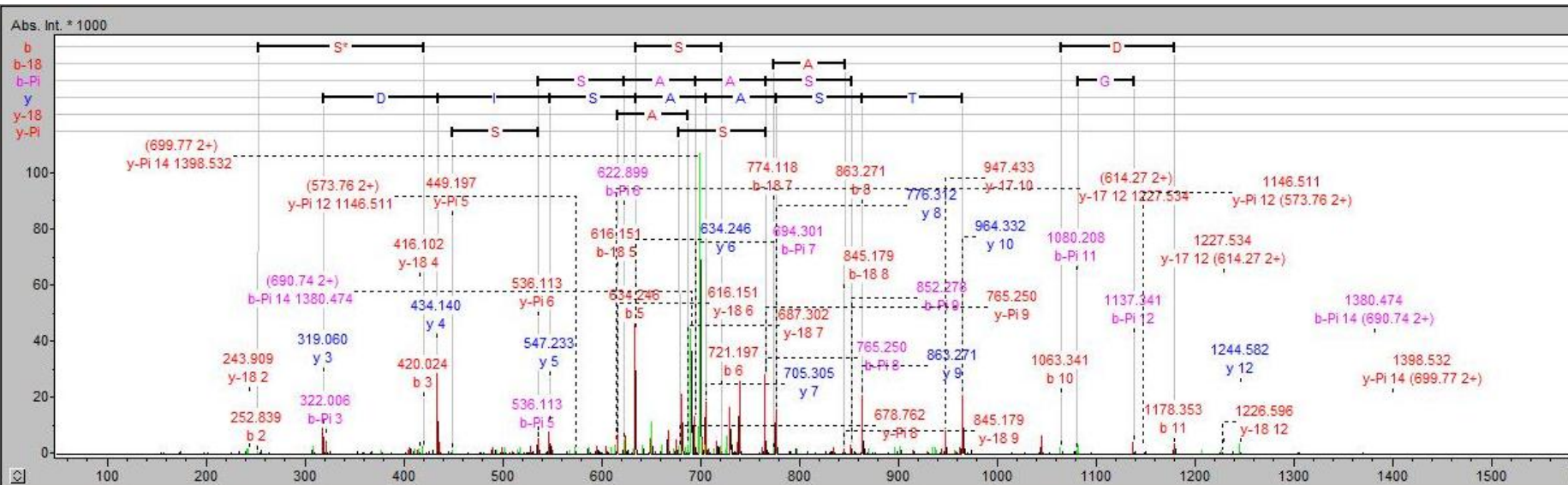
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: T A S L T S A A S* I D G S R (Peptide Mods: 9: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS To1: 0.500 Da Peaks: 139 Above Threshold: 139 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 44 Not Assigned: 95 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 102.055 | 173.092 | 260.124 | 373.208 | 474.256 | 561.288 | 632.325 | 703.362 | 870.360 | 983.445 | 1098.471 | 1155.493 | 1242.525 | 1398.626 |
| b-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | - | - | - | - | - | - | - | - | - | - | - | - | 1381.600 |
| b-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| b-Pi | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 4.078 | 75.115 | 162.147 | 275.231 | 376.279 | 463.311 | 534.348 | 605.385 | 772.384 | 885.468 | 1000.495 | 1057.516 | 1144.548 | 1300.649 |
| y | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1416.637 |
| y-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1399.610 |
| y-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1398.626 |
| y-Pi | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1318.660 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |



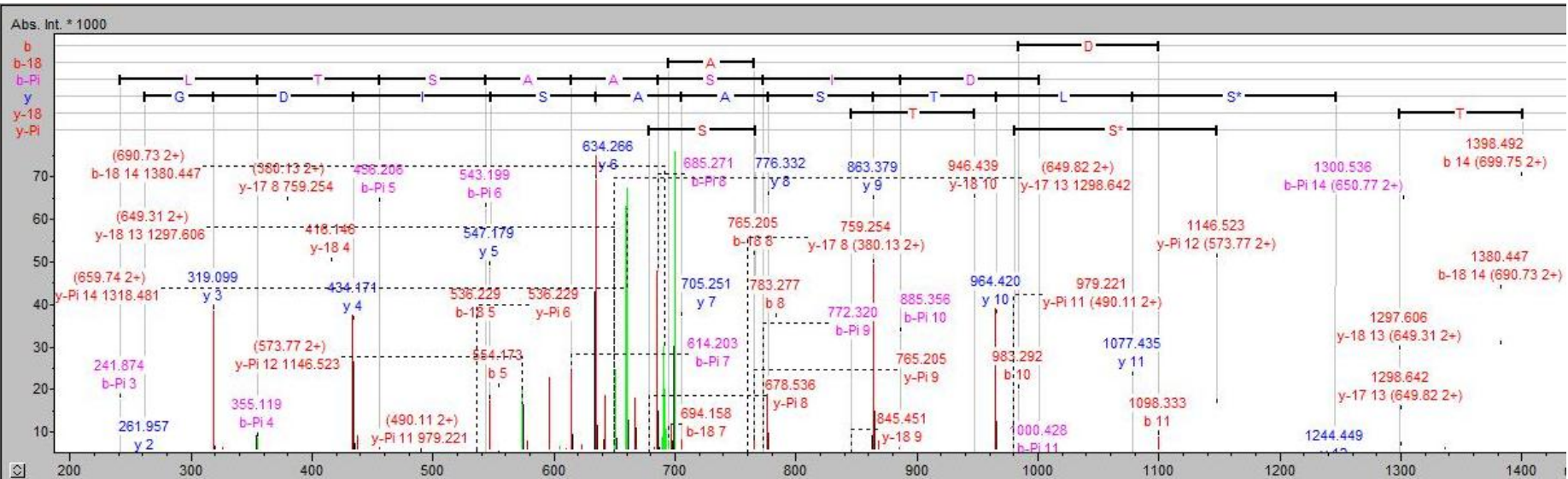
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: T A S L T S A A S I D G S R (Peptide Mods: 1: Phospho (ST) 3: Phospho (ST))

MH+(mono): 1496.603 MH+(avg): 1497.376 MS/MS To: 0.500 Da Peaks: 100 Above Threshold: 100 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 42 Not Assigned: 58 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg |
|------|----|----|----|----|----|---|---|---|---|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 182.021 | 253.058 | 420.057 | 533.141 | 634.188 | 721.221 | 792.258 | 863.295 | 950.327 | 1063.411 | 1178.438 | 1235.459 | 1322.491 | 1478.592 |
| b-17 | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | - | - | - | - | - | - | - | - | - | - | - | - | - | 1461.566 |
| b-18 | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 164.011 | 235.048 | 402.046 | 515.130 | 616.178 | 703.210 | 774.247 | 845.284 | 932.316 | 1045.400 | 1160.427 | 1217.449 | 1304.481 | 1460.582 |
| b-PI | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 84.044 | 155.082 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| y | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 964.469 | 1077.553 | 1244.552 | 1315.589 | 1496.603 |
| y-17 | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1227.525 | 1298.562 | 1479.576 |
| y-18 | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1226.541 | 1297.578 | 1478.592 |
| y-PI | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 866.493 | 979.577 | 1146.575 | 1217.612 | 1398.626 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |



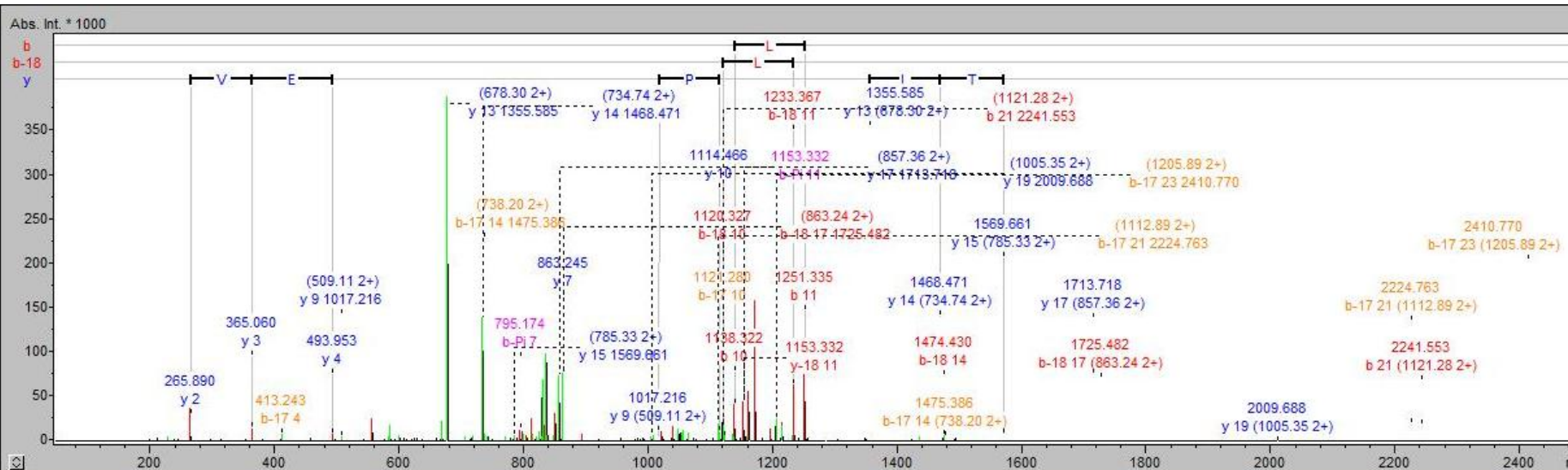
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **TASL TSAASIDGSR** (Peptide Mods: 3: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS Tol: 0.500 Da Peaks: 119 Above Threshold: 119 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 43 Not Assigned: 76 1+, m/z: 0.000

| | T | A | S | L | T | S | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | | | | | | | | | | | | | |
| b-17 | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | | | | | | | | | | | | | |
| b-18 | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | | | | | | | | | | | | | |
| b-PI | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | | | | | | | | | | | | | |
| y | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | | | | | | | | | | | | | |
| y-17 | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | | | | | | | | | | | | | |
| y-18 | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | | | | | | | | | | | | | |
| y-PI | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | | | | | | | | | | | | | |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |



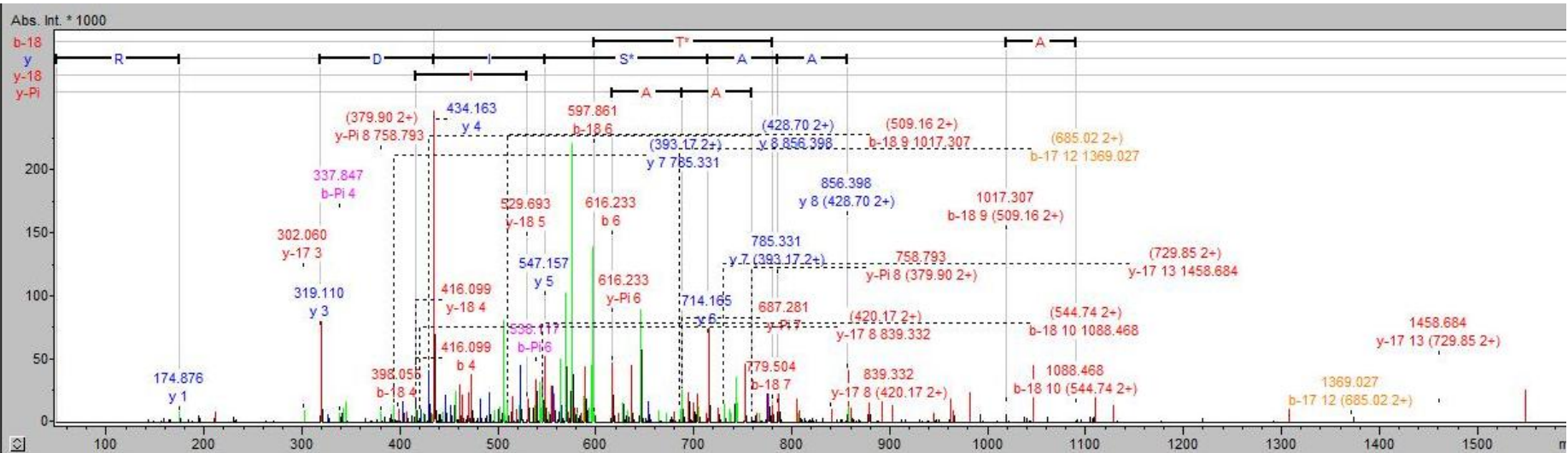
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **TLSQSS⁵ESGTLPSGPPGHTMEVSC** (Peptide Mods: 5: Phospho (ST) 6: Phospho (ST) 24: Carbamidomethyl (C))

MH+(mono): 2606.019 MH+(avg): 2607.598 MS/MS ToJ: 0.500 Da Peaks: 72 Above Threshold: 72 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 26 Not Assigned: 46 1+, m/z: 0.000

| | T | L | S | Q | S | S | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C | Thr | Leu | Ser | Gln | Ser | Ser | Glu | Ser | Gly | Thr | Leu | I | |
|------|----|----|----|----|----------------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| b | T | L | S | Q | S ⁵ | S ⁵ | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C ²⁴ | 102.055 | 215.139 | 302.171 | 430.230 | 597.228 | 764.226 | 893.269 | 980.301 | 1037.322 | 1138.370 | 1251.454 | 13 | |
| b-17 | T | L | S | Q | S ⁵ | S ⁵ | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C ²⁴ | - | - | - | 413.203 | 580.201 | 747.200 | 876.242 | 963.274 | 1020.296 | 1121.344 | 1234.428 | 13 | |
| b-18 | T | L | S | Q | S ⁵ | S ⁵ | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C ²⁴ | 84.044 | 197.128 | 284.160 | 412.219 | 579.217 | 746.216 | 875.258 | 962.290 | 1019.312 | 1120.360 | 1233.444 | 13 | |
| b-P1 | T | L | S | Q | S ⁵ | S ⁵ | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C ²⁴ | 4.078 | 117.162 | 204.194 | 332.253 | 499.251 | 666.249 | 795.292 | 882.324 | 939.346 | 1040.393 | 1153.477 | 12 | |
| y | T | L | S | Q | S ⁵ | S ⁵ | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C ²⁴ | 179.048 | 266.081 | 365.149 | 494.192 | 625.232 | 726.280 | 863.339 | 920.360 | 1017.413 | 1114.466 | 1171.487 | 12 | |
| y-17 | T | L | S | Q | S ⁵ | S ⁵ | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C ²⁴ | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| y-18 | T | L | S | Q | S ⁵ | S ⁵ | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C ²⁴ | - | 248.070 | 347.138 | 476.181 | 607.221 | 708.269 | 845.328 | 902.349 | 999.402 | 1096.455 | 1153.476 | 12 | |
| y-P1 | T | L | S | Q | S ⁵ | S ⁵ | E | S | G | T | L | P | S | G | P | P | G | H | T | M | E | V | S | C ²⁴ | - | 168.104 | 267.172 | 396.215 | 527.255 | 628.303 | 765.362 | 822.383 | 919.436 | 1016.489 | 1073.510 | 11 | |
| | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Cys | Ser | Val | Glu | Met | Thr | His | Gly | Pro | Pro | Gly | I | |



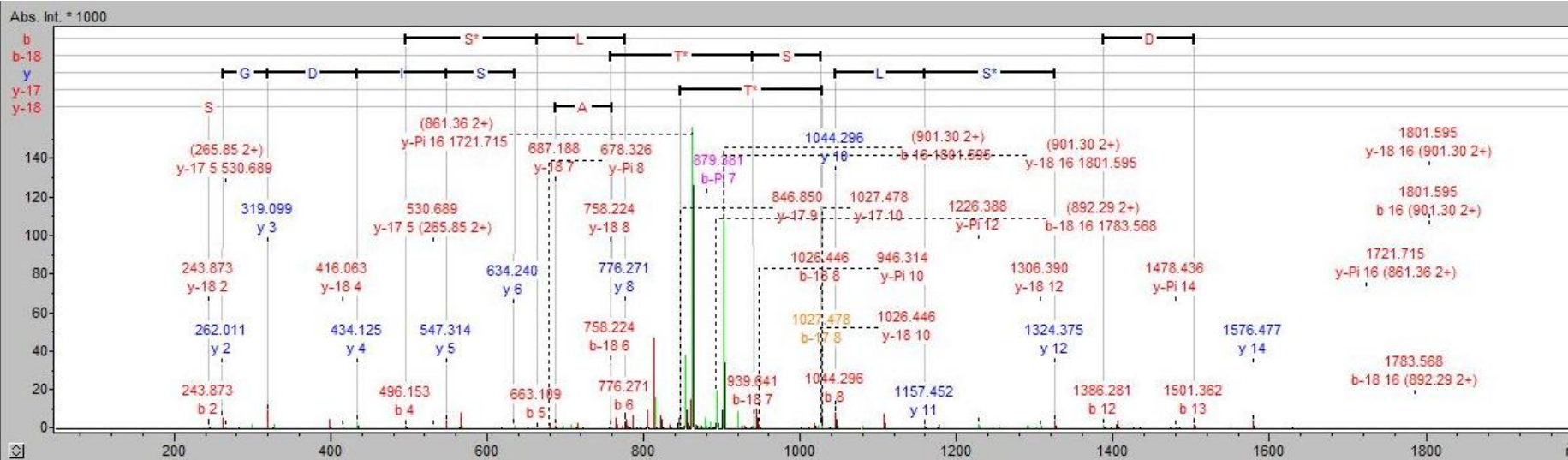
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SRTASLTSAASIDGSR (Peptide Mods: 7: Phospho (ST) 8: Phospho (ST) 11: Phospho (ST))

MH+(mono): 1819.702 MH+(avg): 1820.619 MS/MS Tol: 0.500 Da Peaks: 107 Above Threshold: 107 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 25 Not Assigned: 82 1+, m/z: 0.000

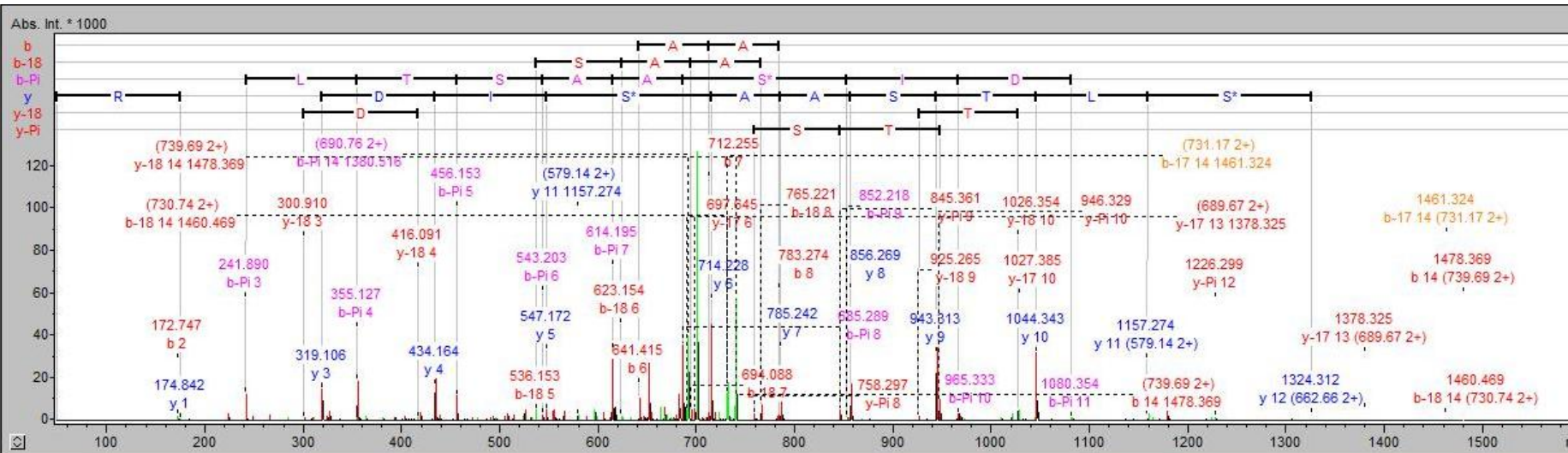
| | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | G |
|------|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 88.039 | 244.140 | 345.188 | 416.225 | 503.257 | 616.341 | 797.355 | 964.354 | 1035.391 | 1106.428 | 1273.426 | 1386.510 | 1501.537 | 15 |
| b-17 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 227.114 | 328.162 | 399.199 | 486.231 | 599.315 | 780.329 | 947.327 | 1018.364 | 1089.401 | 1256.400 | 1369.484 | 1484.511 | 15 |
| b-18 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 70.029 | 226.130 | 327.178 | 398.215 | 485.247 | 598.331 | 779.345 | 946.343 | 1017.380 | 1088.417 | 1255.416 | 1368.500 | 1483.527 | 15 |
| b-Pi | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 166.039 | 267.086 | 338.123 | 425.156 | 538.240 | 719.254 | 886.252 | 957.289 | 1028.326 | 1195.325 | 1308.409 | 1423.436 | 14 |
| y | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 1023.354 | 1204.368 | 1317.452 | 1404.484 | 1475.522 | 15 |
| y-17 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 1006.328 | 1187.342 | 1300.426 | 1387.458 | 1458.495 | 15 |
| y-18 | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 1005.344 | 1186.358 | 1299.442 | 1386.474 | 1457.511 | 15 |
| y-Pi | S | R | T | A | S | L | T* | S* | A | A | S* | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 925.378 | 1106.392 | 1219.476 | 1306.508 | 1377.545 | 14 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | T |



Sequence: **SRTASLTSAAASIDGSR** (Peptide Mods: 3: Phospho (ST) 5: Phospho (ST) 7: Phospho (ST))

MH+(mono): 1819.702 MH+(avg): 1820.619 MS/MS Tol: 0.500 Da Peaks: 86 Above Threshold: 86 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 39 Not Assigned: 47 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 88.039 | 244.140 | 425.154 | 496.192 | 663.190 | 776.274 | 957.288 | 1044.320 | 1115.357 | 1186.394 | 1273.426 | 1386.510 | 1501.537 | |
| b-17 | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 227.114 | 408.128 | 479.165 | 646.163 | 759.247 | 940.261 | 1027.293 | 1098.331 | 1169.368 | 1256.400 | 1369.484 | 1484.511 | |
| b-18 | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 70.029 | 226.130 | 407.144 | 478.181 | 645.179 | 758.263 | 939.277 | 1026.309 | 1097.347 | 1168.384 | 1255.416 | 1368.500 | 1483.527 | |
| b-Pi | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 166.039 | 347.053 | 418.090 | 585.088 | 698.172 | 879.186 | 966.218 | 1037.255 | 1108.293 | 1195.325 | 1308.409 | 1423.436 | |
| y | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 1044.436 | 1157.520 | 1324.518 | 1395.555 | |
| y-17 | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 1027.409 | 1140.493 | 1307.492 | 1378.529 | |
| y-18 | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 1026.425 | 1139.509 | 1306.508 | 1377.545 | |
| y-Pi | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 946.459 | 1059.543 | 1226.541 | 1297.578 | |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | |

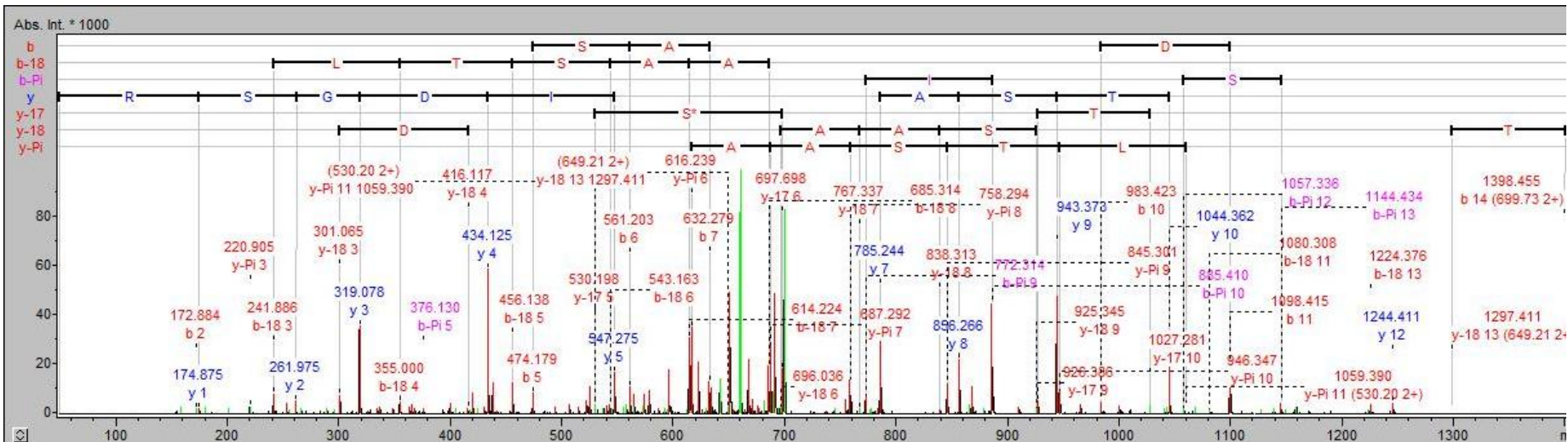


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: T A S L T S A A S I D G S R (Peptide Mods: 3: Phospho (ST) 9: Phospho (ST))

MH+(mono): 1496.603 MH+(avg): 1497.376 MS/MS Tol: 0.500 Da Peaks: 115 Above Threshold: 115 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 45 Not Assigned: 70 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | | 102.055 | 173.092 | 340.090 | 453.174 | 554.222 | 641.254 | 712.291 | 783.328 | 950.327 | 1063.411 | 1178.438 | 1235.459 | 1322.491 | 1478.592 |
| b-17 | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | | - | - | - | - | - | - | - | - | - | - | - | - | - | 1461.566 |
| b-18 | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | | 84.044 | 155.082 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 932.316 | 1045.400 | 1160.427 | 1217.449 | 1304.481 | 1460.582 |
| b-Pi | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | | 4.078 | 75.115 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| y | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1324.518 | 1395.555 | 1496.603 |
| y-17 | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1307.492 | 1378.529 | 1479.576 |
| y-18 | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1306.508 | 1377.545 | 1478.592 |
| y-Pi | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1226.541 | 1297.578 | 1398.626 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | |



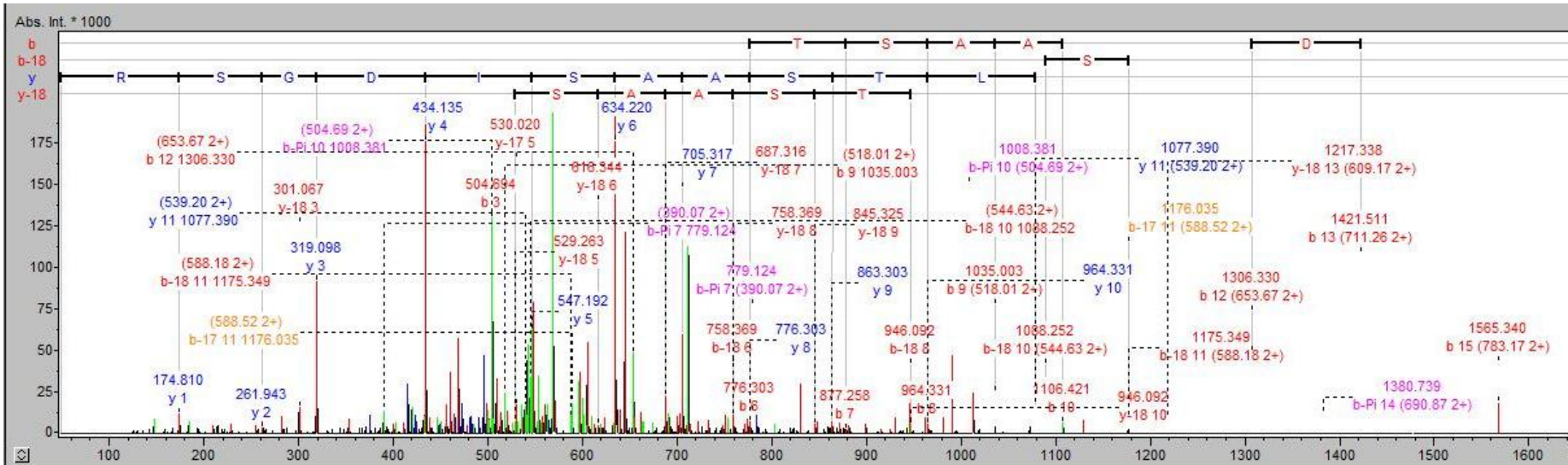
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **TASLTSAAIDGSR** (Peptide Mods: 9: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS Tot: 0.500 Da Peaks: 128 Above Threshold: 128 Zoom to m/z for 2+: Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 50 Not Assigned: 78 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 102.055 | 173.092 | 260.124 | 373.208 | 474.256 | 561.288 | 632.325 | 703.362 | 870.360 | 983.445 | 1098.471 | 1155.493 | 1242.525 | 1398.626 |
| b-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | | | | | | | | | | | | | | 1381.600 |
| b-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| b-Pi | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 4.078 | 75.115 | 162.147 | 275.231 | 376.279 | 463.311 | 534.348 | 605.385 | 772.384 | 885.468 | 1000.495 | 1057.516 | 1144.548 | 1300.649 |
| y | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1416.637 |
| y-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1399.610 |
| y-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1398.626 |
| y-Pi | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1318.660 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | |



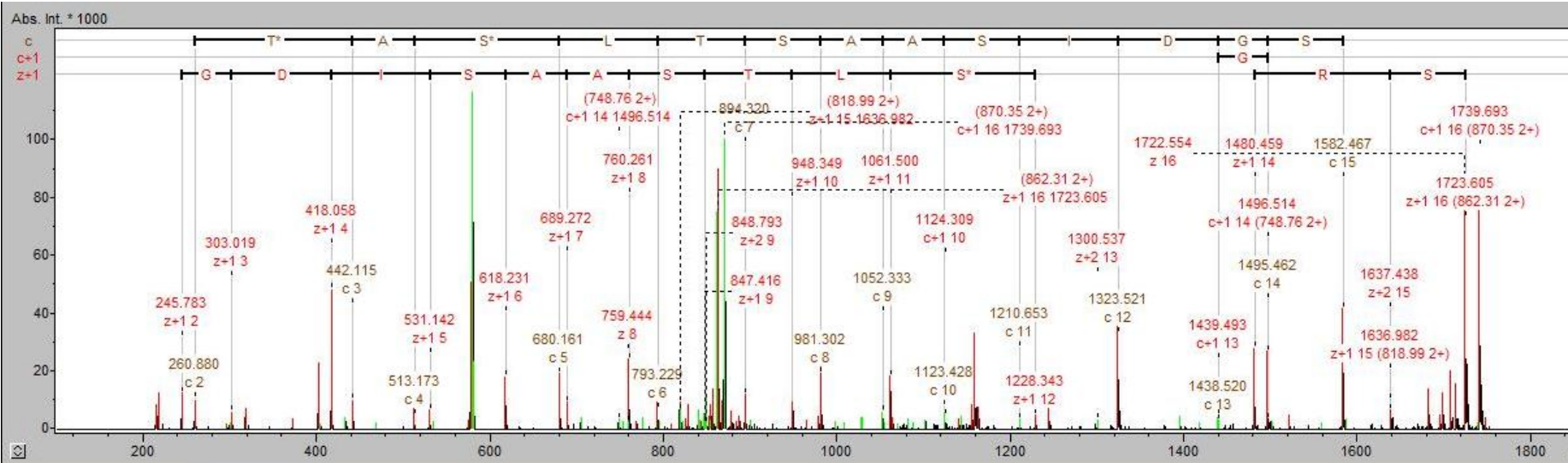
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **SRTASLTSAA SIDGSR** (Peptide Mods: 1: Phospho (ST) 3: Phospho (ST))

MH+(mono): 1739.736 MH+(avg): 1740.639 MS/MS Tol: 0.500 Da Peaks: 126 Above Threshold: 126 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 37 Not Assigned: 89 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | G |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 168.006 | 324.107 | 505.121 | 576.158 | 663.190 | 776.274 | 877.322 | 964.354 | 1035.391 | 1106.428 | 1193.460 | 1306.544 | 1421.571 | 14 |
| b-17 | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 307.080 | 488.094 | 559.131 | 646.163 | 759.247 | 860.295 | 947.327 | 1018.364 | 1089.401 | 1176.433 | 1289.517 | 1404.544 | 14 |
| b-18 | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 149.995 | 306.096 | 487.110 | 558.147 | 645.179 | 758.263 | 859.311 | 946.343 | 1017.380 | 1088.417 | 1175.449 | 1288.533 | 1403.560 | 14 |
| b-Pi | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 70.029 | 226.130 | 407.144 | 478.181 | 565.213 | 678.297 | 779.345 | 866.377 | 937.414 | 1008.451 | 1095.483 | 1208.567 | 1323.594 | 13 |
| y | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 964.469 | 1077.553 | 1164.586 | 1235.623 | 14 |
| y-17 | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1147.559 | 1218.596 | 13 |
| y-18 | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 13 |
| y-Pi | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 866.493 | 979.577 | 1066.609 | 1137.646 | 13 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | T |



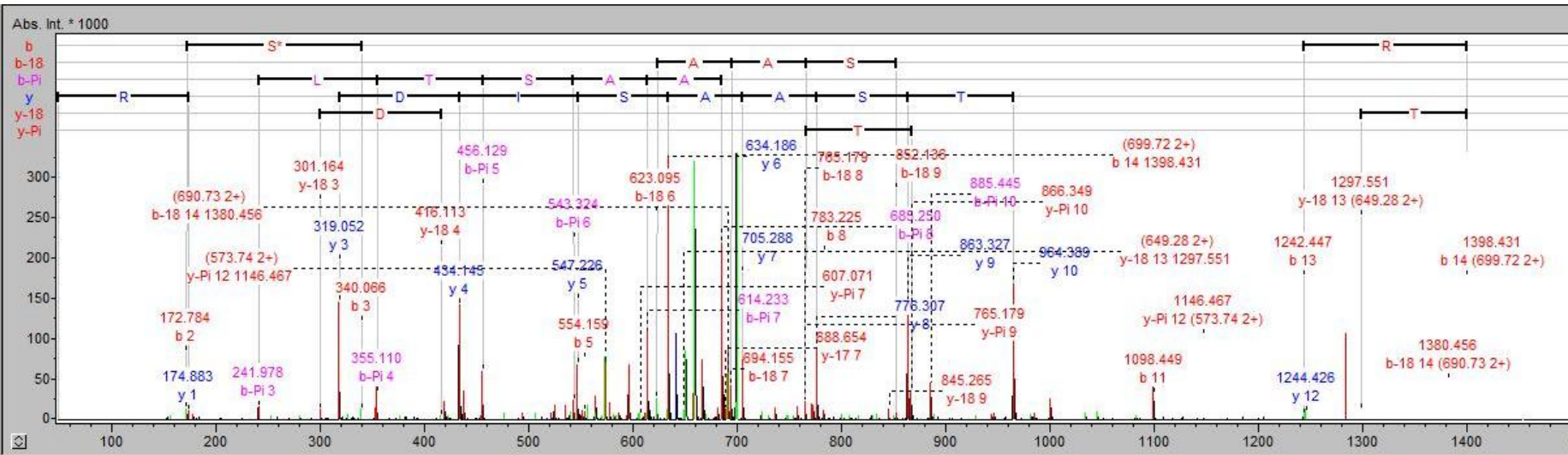
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SRTAASIDGSR (Peptide Mods: 3: Phospho (ST) 5: Phospho (ST))

MH+(mono): 1739.736 MH+(avg): 1740.639 MS/MS Tol: 0.500 Da Peaks: 111 Above Threshold: 111 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 37 Not Assigned: 74 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gl |
|-----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|-----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| c | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | 105.066 | 261.167 | 442.181 | 513.218 | 680.216 | 793.301 | 894.348 | 981.380 | 1052.417 | 1123.454 | 1210.486 | 1323.571 | 1438.597 | 149 |
| c+1 | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | 106.074 | 262.175 | 443.189 | 514.226 | 681.224 | 794.308 | 895.356 | 982.388 | 1053.425 | 1124.462 | 1211.494 | 1324.578 | 1439.605 | 149 |
| z | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1227.525 | 1298.562 | 147 |
| z+1 | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | 159.100 | 246.132 | 303.154 | 418.181 | 531.265 | 618.297 | 689.334 | 760.371 | 847.403 | 948.451 | 1061.535 | 1228.533 | 1299.570 | 148 |
| z+2 | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | 160.108 | 247.140 | 304.162 | 419.188 | 532.273 | 619.305 | 690.342 | 761.379 | 848.411 | 949.459 | 1062.543 | 1229.541 | 1300.578 | 148 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Tr |



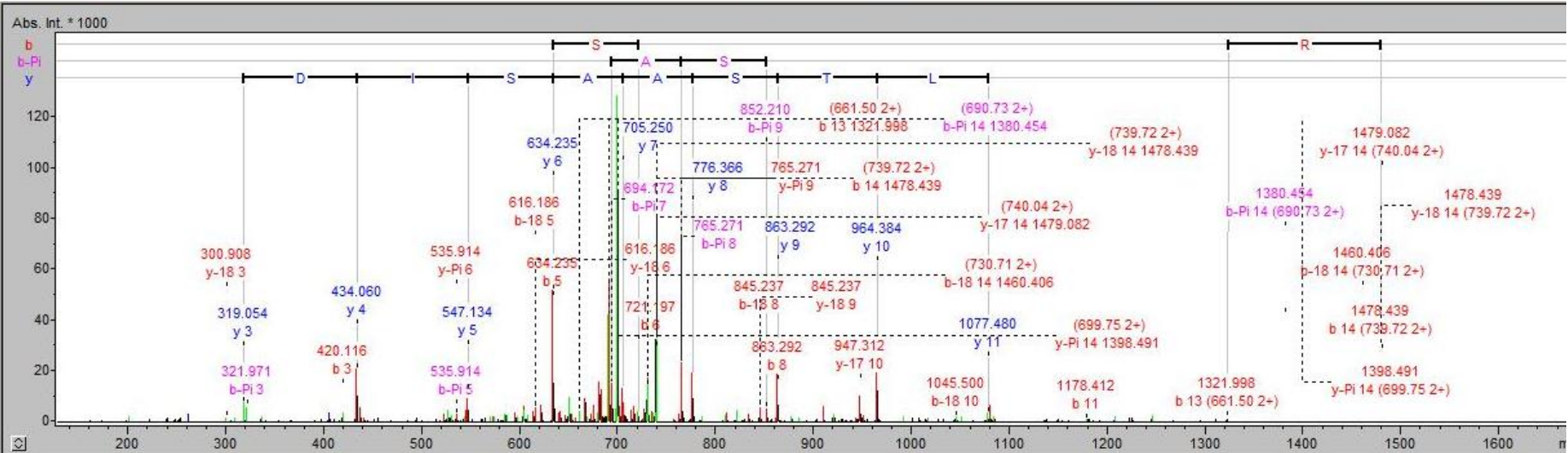
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: TASLTSAAIDGSR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS To: 0.500 Da Peaks: 106 Above Threshold: 106 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 41 Not Assigned: 65 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | | |
|------|----|----|----|----|----|---|---|---|---|----|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| b | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | 102.055 | 173.092 | 340.090 | 453.174 | 554.222 | 641.254 | 712.291 | 783.328 | 870.360 | 983.445 | 1098.471 | 1155.493 | 1242.525 | 1398.626 | |
| b-17 | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1381.600 |
| b-18 | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | 84.044 | 155.082 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 | |
| b-PI | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | 4.078 | 75.115 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 772.384 | 885.468 | 1000.495 | 1057.516 | 1144.548 | 1300.649 | |
| y | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 964.469 | 1077.553 | 1244.552 | 1315.589 | 1416.637 | |
| y-17 | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1227.525 | 1298.562 | 1399.610 | |
| y-18 | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1226.541 | 1297.578 | 1398.626 | |
| y-PI | T | A | S* | L | T | S | A | A | S | I | D | G | S | R | | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 866.493 | 979.577 | 1146.575 | 1217.612 | 1318.660 | |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | | |

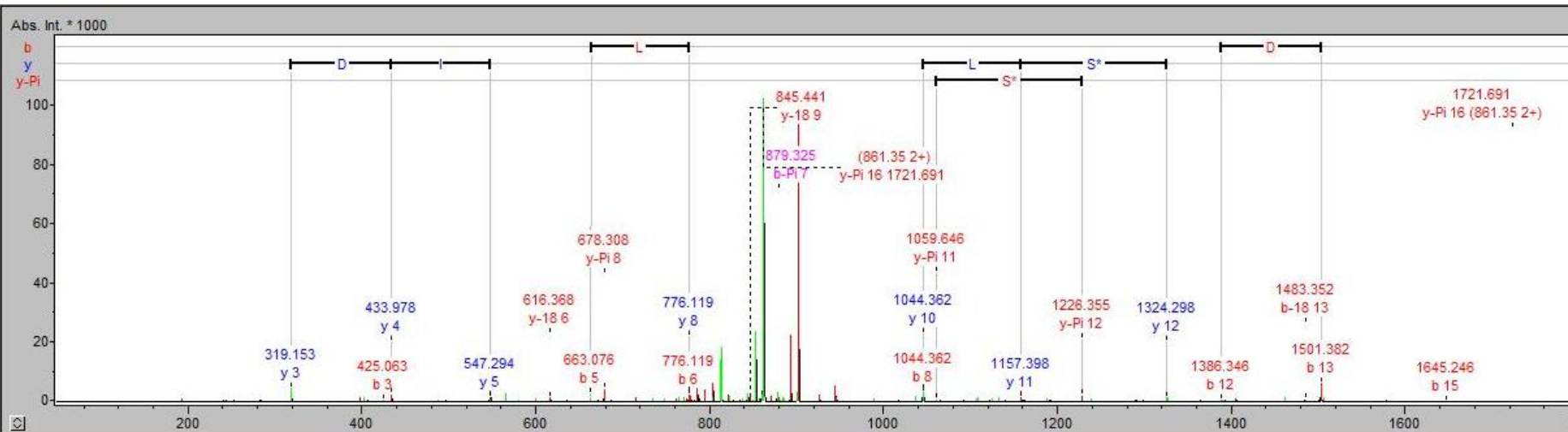


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: T A S L T S A A S I D G S R (Peptide Mods: 1: Phospho (ST) 3: Phospho (ST))

MH+(mono): 1496.603 MH+(avg): 1497.376 MS/MS Tol: 0.500 Da Peaks: 101 Above Threshold: 101 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 35 Not Assigned: 66 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg |
|------|----|----|----|----|----|---|---|---|---|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 182.021 | 253.058 | 420.057 | 533.141 | 634.188 | 721.221 | 792.258 | 863.295 | 950.327 | 1063.411 | 1178.438 | 1235.459 | 1322.491 | 1478.592 |
| b-17 | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | - | - | - | - | - | - | - | - | - | - | - | - | - | 1461.566 |
| b-18 | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 164.011 | 235.048 | 402.046 | 515.130 | 616.178 | 703.210 | 774.247 | 845.284 | 932.316 | 1045.400 | 1160.427 | 1217.449 | 1304.481 | 1460.582 |
| b-Pi | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 84.044 | 155.082 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| y | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 964.469 | 1077.553 | 1244.552 | 1315.589 | 1496.603 |
| y-17 | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1227.525 | 1298.562 | 1479.576 |
| y-18 | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1226.541 | 1297.578 | 1478.592 |
| y-Pi | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 866.493 | 979.577 | 1146.575 | 1217.612 | 1398.626 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |

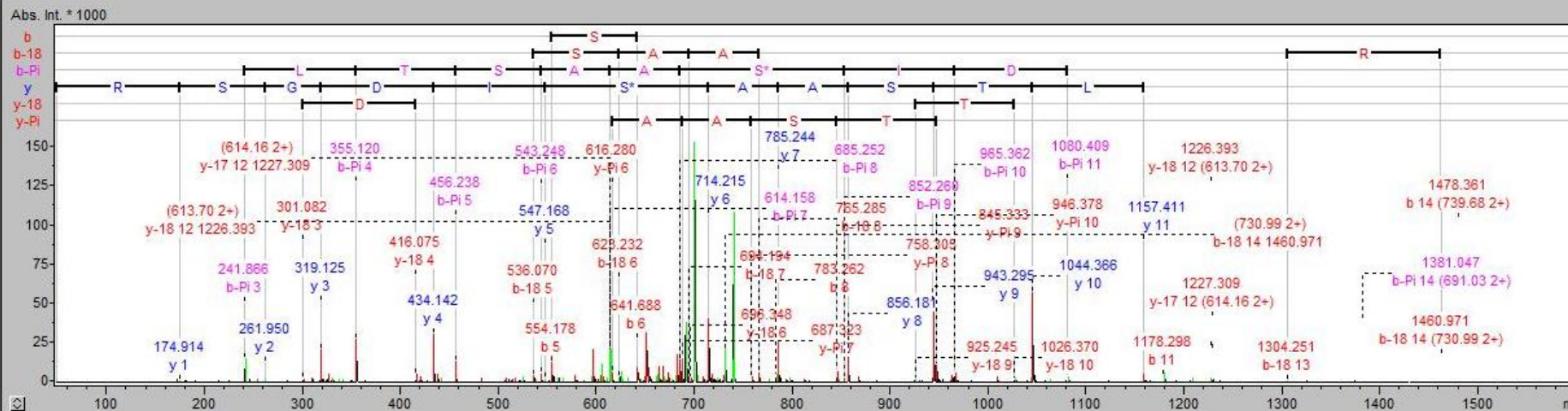


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **SRTASLTAASIDGSR** (Peptide Mods: 3: Phospho (ST) 5: Phospho (ST) 7: Phospho (ST))

MH+(mono): 1819.702 MH+(avg): 1820.619 MS/MS Tol: 0.500 Da Peaks: 78 Above Threshold: 78 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 22 Not Assigned: 56 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | C |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 88.039 | 244.140 | 425.154 | 496.192 | 663.190 | 776.274 | 957.288 | 1044.320 | 1115.357 | 1186.394 | 1273.426 | 1386.510 | 1501.537 | 15 |
| b-17 | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 227.114 | 408.128 | 479.165 | 646.163 | 759.247 | 940.261 | 1027.293 | 1098.331 | 1169.368 | 1256.400 | 1369.484 | 1484.511 | 15 |
| b-18 | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 70.029 | 226.130 | 407.144 | 478.181 | 645.179 | 758.263 | 939.277 | 1026.309 | 1097.347 | 1168.384 | 1255.416 | 1368.500 | 1483.527 | 15 |
| b-Pi | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 166.039 | 347.053 | 418.090 | 585.088 | 698.172 | 879.186 | 966.218 | 1037.255 | 1108.293 | 1195.325 | 1308.409 | 1423.436 | 14 |
| y | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 1044.436 | 1157.520 | 1324.518 | 1395.555 | 15 |
| y-17 | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 1027.409 | 1140.493 | 1307.492 | 1378.529 | 15 |
| y-18 | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 1026.425 | 1139.509 | 1306.508 | 1377.545 | 15 |
| y-Pi | S | R | T* | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 946.459 | 1059.543 | 1226.541 | 1297.578 | 14 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | T |

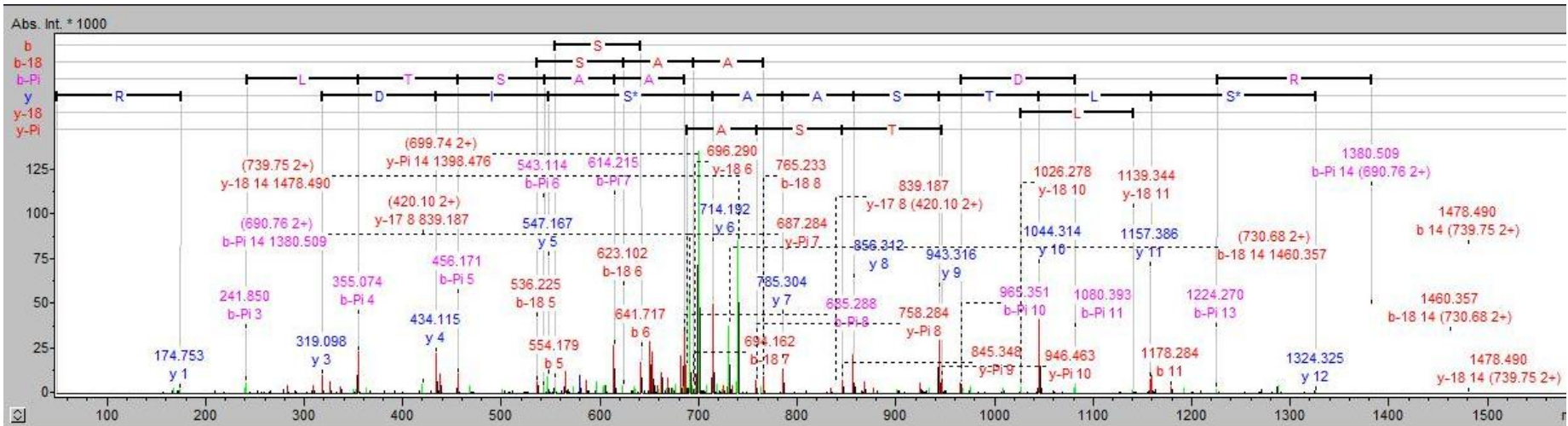


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **TASLTSAASIDGSR** (Peptide Mods: 1: Phospho (ST) 9: Phospho (ST))

MH+(mono): 1496.603 MH+(avg): 1497.376 MS/MS Tol: 0.500 Da Peaks: 106 Above Threshold: 106 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 46 Not Assigned: 60 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 182.021 | 253.058 | 340.090 | 453.174 | 554.222 | 641.254 | 712.291 | 783.328 | 950.327 | 1063.411 | 1178.438 | 1235.459 | 1322.491 | 1478.592 |
| b-17 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | - | - | - | - | - | - | - | - | - | - | - | - | 1461.566 |
| b-18 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 164.011 | 235.048 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 932.316 | 1045.400 | 1160.427 | 1217.449 | 1304.481 | 1460.582 |
| b-Pi | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| y | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1496.603 |
| y-17 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1479.576 |
| y-18 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1478.592 |
| y-Pi | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1398.626 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | |

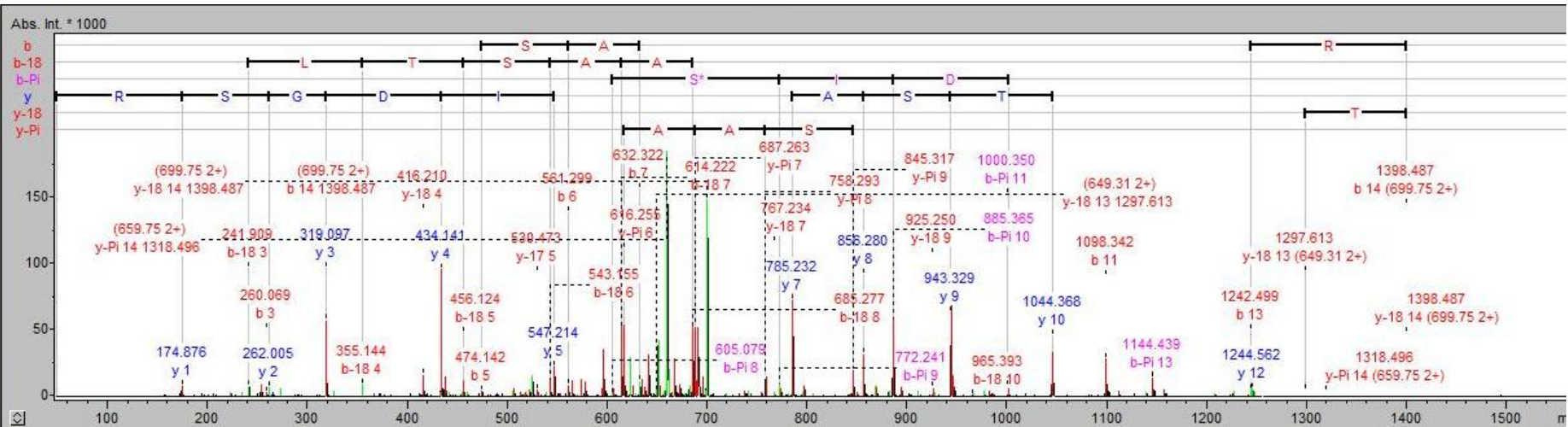


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **TASLTSAA SIDGSR** (Peptide Mods: 3: Phospho (ST) 9: Phospho (ST))

MH+(mono): 1496.603 MH+(avg): 1497.376 MS/MS Tol: 0.500 Da Peaks: 94 Above Threshold: 94 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 40 Not Assigned: 54 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | 102.055 | 173.092 | 340.090 | 453.174 | 554.222 | 641.254 | 712.291 | 783.328 | 950.327 | 1063.411 | 1178.438 | 1235.459 | 1322.491 | 1478.592 |
| b-17 | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | - | - | - | - | - | - | - | - | - | - | - | - | - | 1461.566 |
| b-18 | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | 84.044 | 155.082 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 932.316 | 1045.400 | 1160.427 | 1217.449 | 1304.481 | 1460.582 |
| b-Pi | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | 4.078 | 75.115 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| y | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1324.518 | 1395.555 | 1496.603 |
| y-17 | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1307.492 | 1378.529 | 1479.576 |
| y-18 | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1306.508 | 1377.545 | 1478.592 |
| y-Pi | T | A | S* | L | T | S | A | A | S* | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1226.541 | 1297.578 | 1398.626 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |



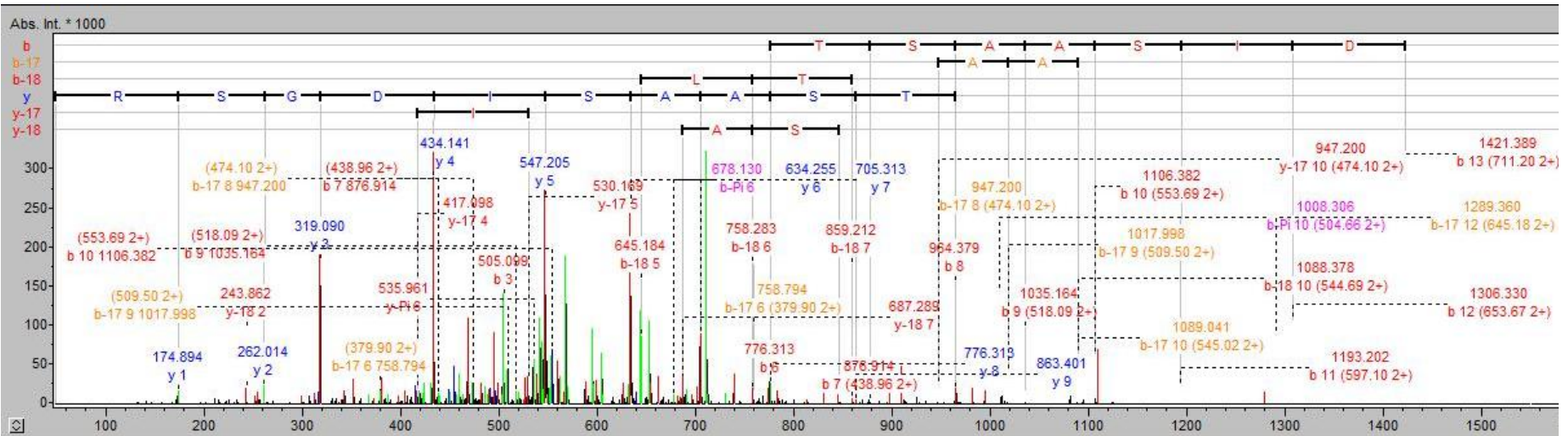
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: T A S L T S A A S I D G S R (Peptide Mods: 9: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS Tol: 0.500 Da Peaks: 118 Above Threshold: 118 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 40 Not Assigned: 78 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 102.055 | 173.092 | 260.124 | 373.208 | 474.256 | 561.288 | 632.325 | 703.362 | 870.360 | 983.445 | 1098.471 | 1155.493 | 1242.525 | 1398.626 |
| b-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | - | - | - | - | - | - | - | - | - | - | - | - | 1381.600 |
| b-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| b-PI | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 4.078 | 75.115 | 162.147 | 275.231 | 376.279 | 463.311 | 534.348 | 605.385 | 772.384 | 885.468 | 1000.495 | 1057.516 | 1144.548 | 1300.649 |
| y | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1416.637 |
| y-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1399.610 |
| y-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1398.626 |
| y-PI | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1318.660 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |

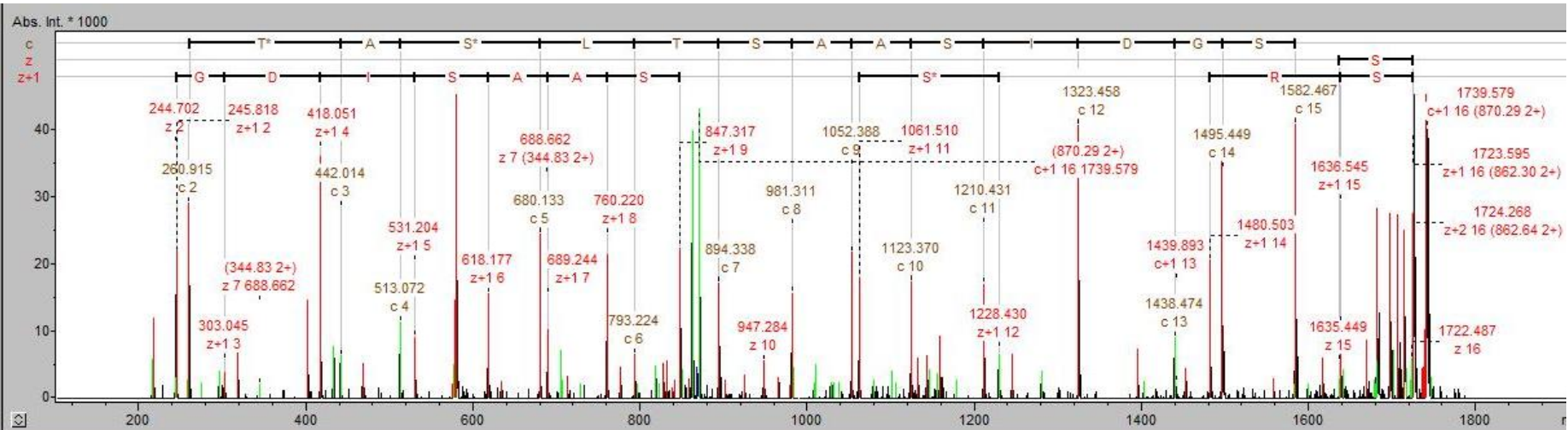


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **SRTASLTSAASIDGSR** (Peptide Mods: 1: Phospho (ST) 3: Phospho (ST))

MH+(mono): 1739.736 MH+(avg): 1740.639 MS/MS To: 0.500 Da Peaks: 107 Above Threshold: 107 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 42 Not Assigned: 65 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | C |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S* | R* | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 168.006 | 324.107 | 505.121 | 576.158 | 663.190 | 776.274 | 877.322 | 964.354 | 1035.391 | 1106.428 | 1193.460 | 1306.544 | 1421.571 | 14 |
| b-17 | S* | R* | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 307.080 | 488.094 | 559.131 | 646.163 | 759.247 | 860.295 | 947.327 | 1018.364 | 1089.401 | 1176.433 | 1289.517 | 1404.544 | 14 |
| b-18 | S* | R* | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 149.995 | 306.096 | 487.110 | 558.147 | 645.179 | 758.263 | 859.311 | 946.343 | 1017.380 | 1088.417 | 1175.449 | 1288.533 | 1403.560 | 14 |
| b-Pi | S* | R* | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 70.029 | 226.130 | 407.144 | 478.181 | 565.213 | 678.297 | 779.345 | 866.377 | 937.414 | 1008.451 | 1095.483 | 1208.567 | 1323.594 | 13 |
| y | S* | R* | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 964.469 | 1077.553 | 1164.586 | 1235.623 | 14 |
| y-17 | S* | R* | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1147.559 | 1218.596 | 13 |
| y-18 | S* | R* | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 13 |
| y-Pi | S* | R* | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 866.493 | 979.577 | 1066.609 | 1137.646 | 13 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | 1 |



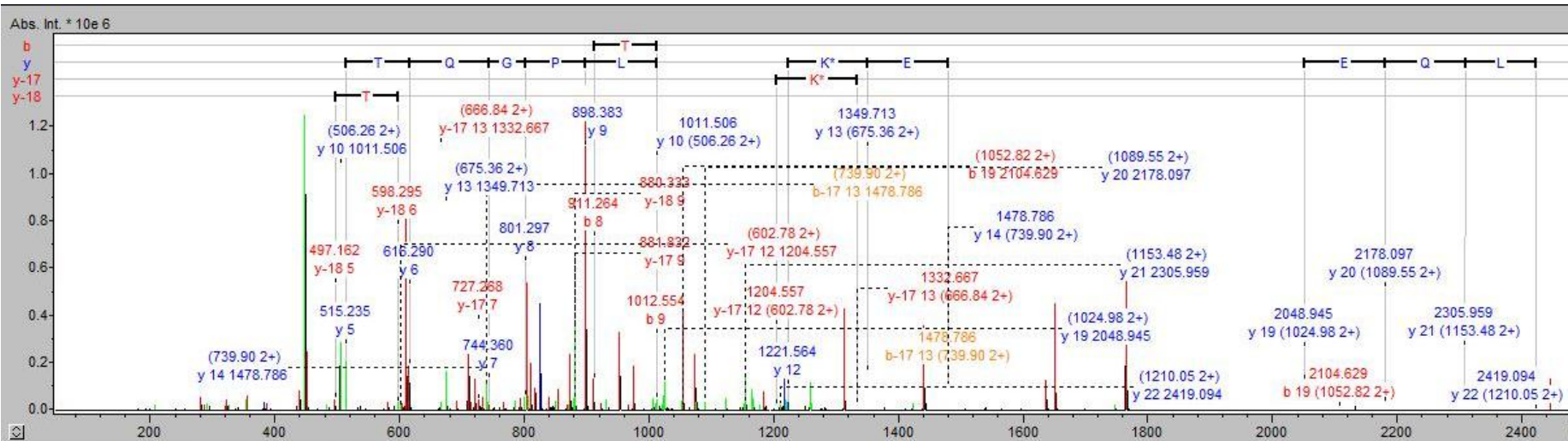
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SRTASLTAASIDGSR (Peptide Mods: 3: Phospho (ST) 5: Phospho (ST))

MH+(mono): 1739.736 MH+(avg): 1740.639 MS/MS To: 0.500 Da Peaks: 111 Above Threshold: 111 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 35 Not Assigned: 76 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gl |
|-----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|-----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| c | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 105.066 | 261.167 | 442.181 | 513.218 | 680.216 | 793.301 | 894.348 | 981.380 | 1052.417 | 1123.454 | 1210.486 | 1323.571 | 1438.597 | 149 |
| c+1 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 106.074 | 262.175 | 443.189 | 514.226 | 681.224 | 794.308 | 895.356 | 982.388 | 1053.425 | 1124.462 | 1211.494 | 1324.578 | 1439.605 | 149 |
| z | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1227.525 | 1298.562 | 147 |
| z+1 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 159.100 | 246.132 | 303.154 | 418.181 | 531.265 | 618.297 | 689.334 | 760.371 | 847.403 | 948.451 | 1061.535 | 1228.533 | 1299.570 | 148 |
| z+2 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 160.108 | 247.140 | 304.162 | 419.188 | 532.273 | 619.305 | 690.342 | 761.379 | 848.411 | 949.459 | 1062.543 | 1229.541 | 1300.578 | 148 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Tr |

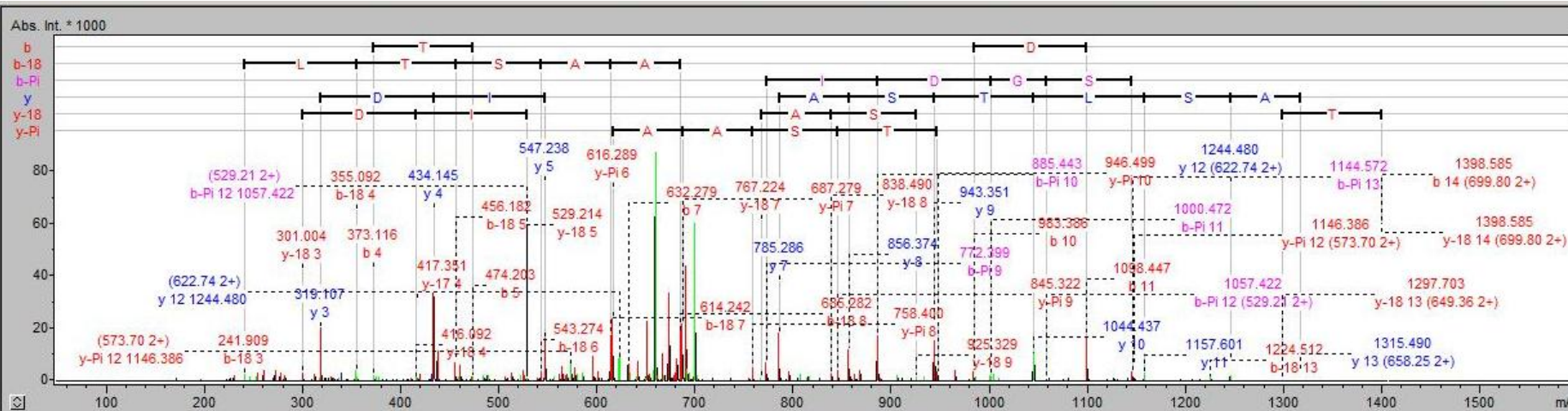


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence:
 MH+(mono): MH+(avg): MS/MS Tol: Da Peaks: Above Threshold: Zoom to m/z for 2+ Da

 Masses: Monoisotopic Average Calculate: Threshold: Assigned: Not Assigned: 1+, m/z: 0.000

| | A | E | L | Q | E | V | Q | I | T | E | E | K | P | L | L | P | G | L | P | Q | T | P | E | A | A | K | Ala | Glu | Leu | Gln | Glu | Val | Gln | Ile | Thr | Glu | Glu |
|------|----|----|----|----|----|----|----|----|----|----|----|----------------|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|-----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| b | A | E | L | Q | E | V | Q | I | T | E | E | K ² | P | L | L | P | G | Q | T | P | E | A | A | K | 72.044 | 201.087 | 314.171 | 442.230 | 571.272 | 670.341 | 798.399 | 911.483 | 1012.531 | 1141.574 | 1270.616 | 1399.664 | |
| b-17 | A | E | L | Q | E | V | Q | I | T | E | E | K ² | P | L | L | P | G | Q | T | P | E | A | A | K | - | - | - | 425.203 | 554.246 | 653.314 | 781.373 | 894.457 | 995.504 | 1124.547 | 1253.590 | 1382.637 | |
| b-18 | A | E | L | Q | E | V | Q | I | T | E | E | K ² | P | L | L | P | G | Q | T | P | E | A | A | K | - | 183.076 | 296.160 | 424.219 | 553.262 | 652.330 | 780.389 | 893.473 | 994.520 | 1123.563 | 1252.606 | 1381.649 | |
| y | A | E | L | Q | E | V | Q | I | T | E | E | K ² | P | L | L | P | G | Q | T | P | E | A | A | K | 147.113 | 218.150 | 289.187 | 418.230 | 515.282 | 616.330 | 744.389 | 801.410 | 898.463 | 1011.547 | 1124.631 | 1237.674 | |
| y-17 | A | E | L | Q | E | V | Q | I | T | E | E | K ² | P | L | L | P | G | Q | T | P | E | A | A | K | 130.086 | 201.123 | 272.160 | 401.203 | 498.256 | 599.304 | 727.362 | 784.384 | 881.436 | 994.520 | 1107.604 | 1220.647 | |
| y-18 | A | E | L | Q | E | V | Q | I | T | E | E | K ² | P | L | L | P | G | Q | T | P | E | A | A | K | - | - | - | 400.219 | 497.272 | 598.320 | 726.378 | 783.400 | 880.452 | 993.536 | 1106.620 | 1219.663 | |
| | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Ala | Ala | Glu | Pro | Thr | Gln | Gly | Pro | Leu | Leu | | |



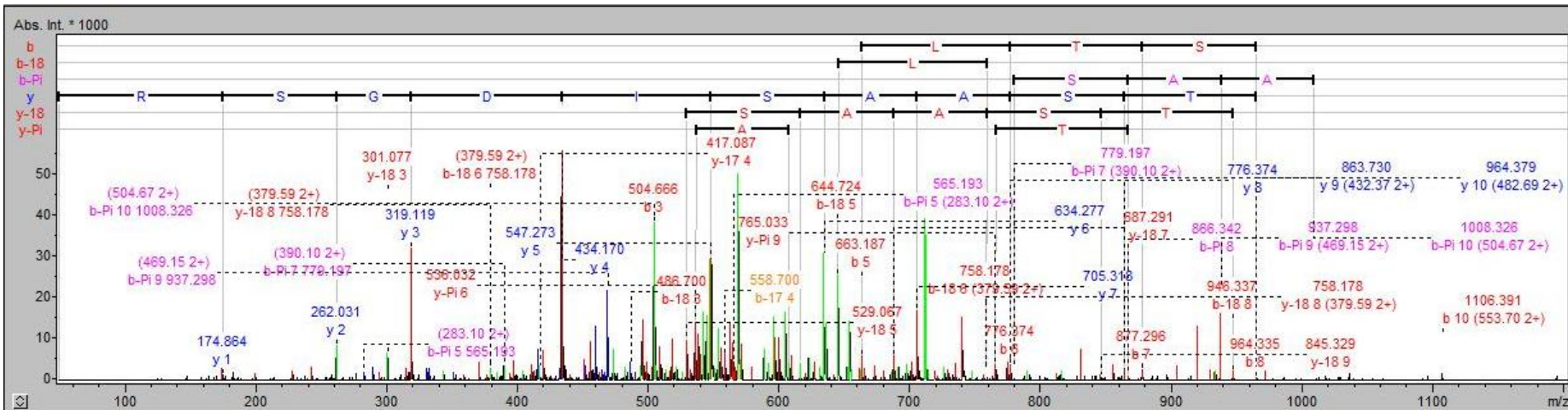
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: TASLTSAASIDGSR (Peptide Mods: 9: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS Tol: 0.500 Da Peaks: 119 Above Threshold: 119 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 44 Not Assigned: 75 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 102.055 | 173.092 | 260.124 | 373.208 | 474.256 | 561.288 | 632.325 | 703.362 | 870.360 | 983.445 | 1098.471 | 1155.493 | 1242.525 | 1398.626 |
| b-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | - | - | - | - | - | - | - | - | - | - | - | - | 1381.600 |
| b-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| b-Pi | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 4.078 | 75.115 | 162.147 | 275.231 | 376.279 | 463.311 | 534.348 | 605.385 | 772.384 | 885.468 | 1000.495 | 1057.516 | 1144.548 | 1300.649 |
| y | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1416.637 |
| y-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1399.610 |
| y-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1398.626 |
| y-Pi | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1318.660 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |



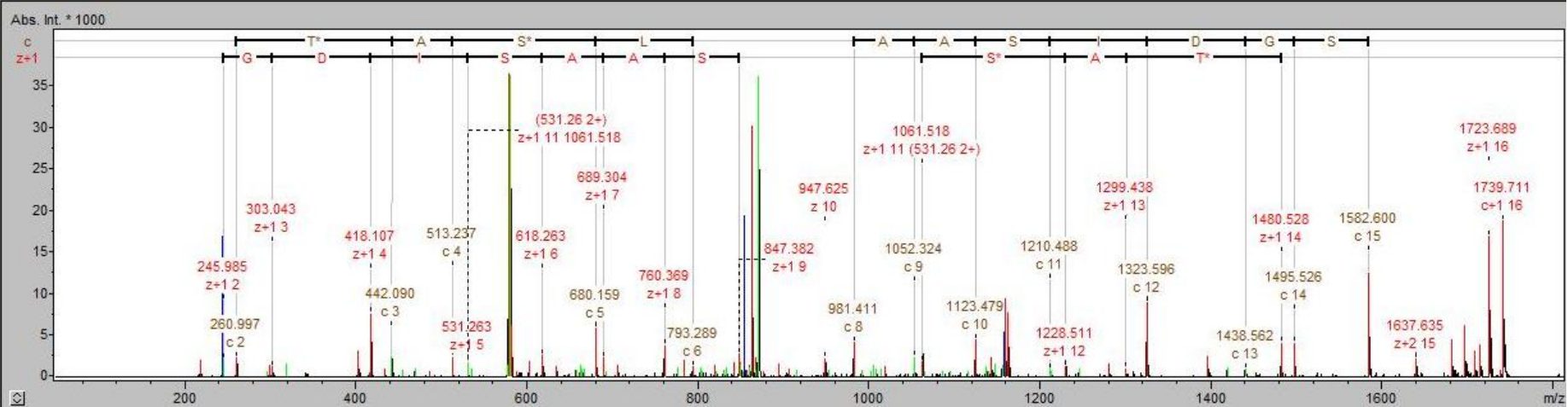
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence:

MH+(mono): MH+(avg): MS/MS To: Da Peaks: Above Threshold: Zoom to m/z for 2+ Da

Masses: Monoisotopic Average Calculate: Threshold: Assigned: Not Assigned: 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 168.006 | 324.107 | 505.121 | 576.158 | 663.190 | 776.274 | 877.322 | 964.354 | 1035.391 | 1106.428 | 1193.460 | 1306.544 | 1421.571 | 1478.000 |
| b-17 | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 307.080 | 488.094 | 559.131 | 646.163 | 759.247 | 860.295 | 947.327 | 1018.364 | 1089.401 | 1176.433 | 1289.517 | 1404.544 | 1461.000 |
| b-18 | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 149.995 | 306.096 | 487.110 | 558.147 | 645.179 | 758.263 | 859.311 | 946.343 | 1017.380 | 1088.417 | 1175.449 | 1288.533 | 1403.560 | 1460.000 |
| b-Pi | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 70.029 | 226.130 | 407.144 | 478.181 | 565.213 | 678.297 | 779.345 | 866.377 | 937.414 | 1008.451 | 1095.483 | 1208.567 | 1323.594 | 1380.000 |
| y | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 964.469 | 1077.553 | 1164.586 | 1235.623 | 1416.000 |
| y-17 | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1147.559 | 1218.596 | 1399.000 |
| y-18 | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1398.000 |
| y-Pi | S* | R | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 866.493 | 979.577 | 1066.609 | 1137.646 | 1318.000 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |



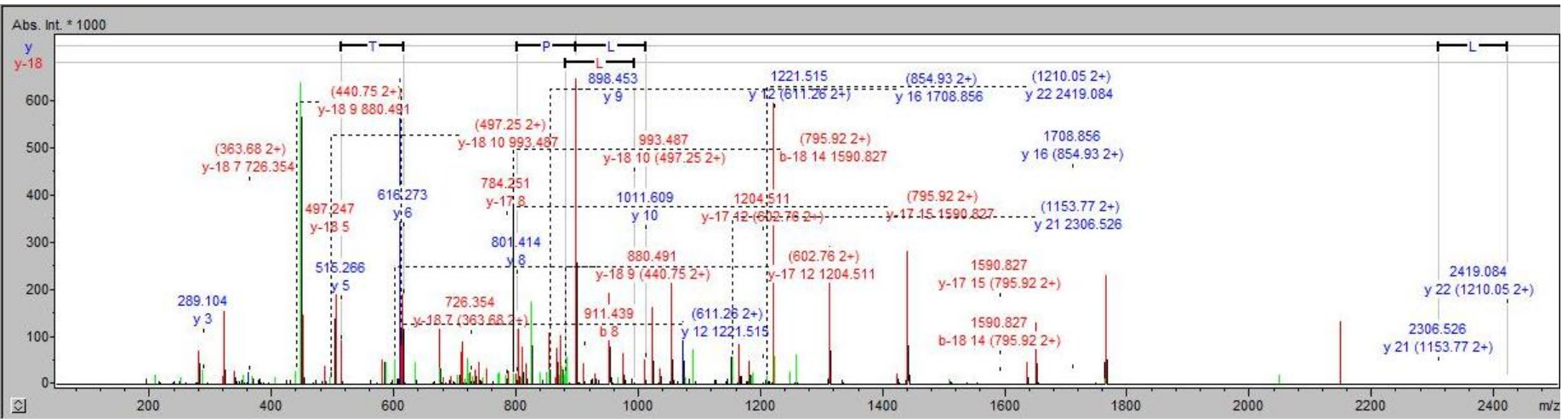
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SRTASLTSAASIDGSR (Peptide Mods: 3: Phospho (ST) 5: Phospho (ST))

MH+(mono): 1739.736 MH+(avg): 1740.639 MS/MS To: 0.500 Da Peaks: 112 Above Threshold: 112 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 29 Not Assigned: 83 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly |
|-----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|--------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| c | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 105.066 | 261.167 | 442.181 | 513.218 | 680.216 | 793.301 | 894.348 | 981.380 | 1052.417 | 1123.454 | 1210.486 | 1323.571 | 1438.597 | 1495.6 |
| c+1 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 106.074 | 262.175 | 443.189 | 514.226 | 681.224 | 794.308 | 895.356 | 982.388 | 1053.425 | 1124.462 | 1211.494 | 1324.578 | 1439.605 | 1496.6 |
| z | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1227.525 | 1298.562 | 1479.5 |
| z+1 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 159.100 | 246.132 | 303.154 | 418.181 | 531.265 | 618.297 | 689.334 | 760.371 | 847.403 | 948.451 | 1061.535 | 1228.533 | 1299.570 | 1480.5 |
| z+2 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 160.108 | 247.140 | 304.162 | 419.188 | 532.273 | 619.305 | 690.342 | 761.379 | 848.411 | 949.459 | 1062.543 | 1229.541 | 1300.578 | 1481.5 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |



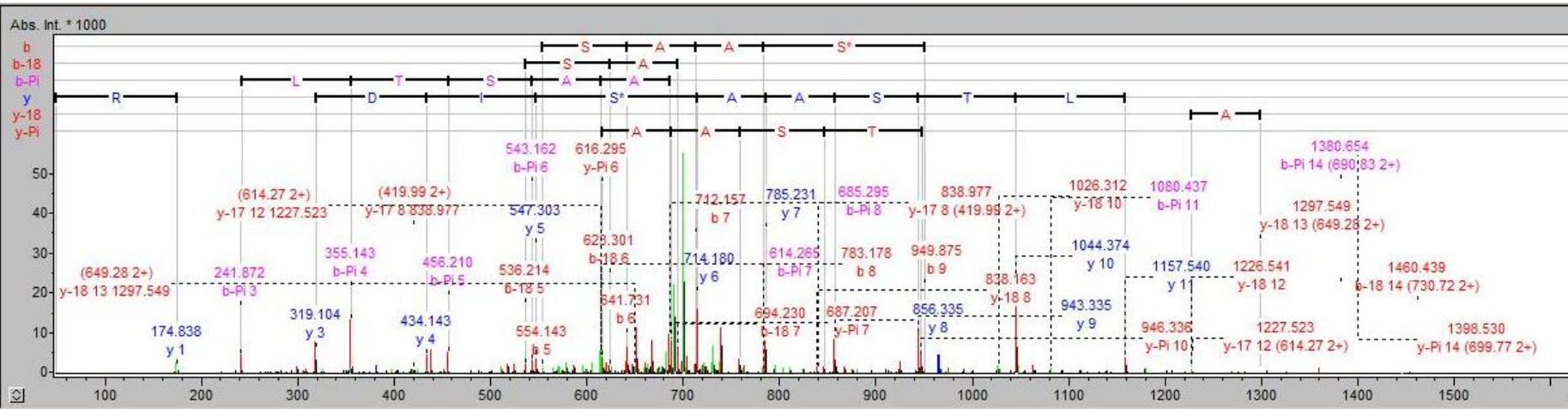
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: AELQEVQITEEKPLLPQGQTPEAAK (Peptide Mods: 12: Acetyl (K))

MH+(mono): 2619.388 MH+(avg): 2620.930 MS/MS ToI: 0.500 Da Peaks: 99 Above Threshold: 99 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 19 Not Assigned: 80 1+, m/z: 0.000

| | A | E | L | Q | E | V | Q | I | T | E | E | K | P | L | L | P | Q | T | P | E | A | A | K | Ala | Glu | Leu | Gln | Glu | Val | Gln | Ile | Thr | Glu | Glu | Lys | |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|------|-----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| b | A | E | L | Q | E | V | Q | I | T | E | E | K* | P | L | L | P | Q | T | P | E | A | A | K | 72.044 | 201.087 | 314.171 | 442.230 | 571.272 | 670.341 | 798.399 | 911.483 | 1012.531 | 1141.574 | 1270.616 | 1398 | |
| b-17 | A | E | L | Q | E | V | Q | I | T | E | E | K* | P | L | L | P | Q | T | P | E | A | A | K | - | - | - | 425.203 | 554.246 | 653.314 | 781.373 | 894.457 | 995.504 | 1124.547 | 1253.590 | 1381 | |
| b-18 | A | E | L | Q | E | V | Q | I | T | E | E | K* | P | L | L | P | Q | T | P | E | A | A | K | - | 183.076 | 296.160 | 424.219 | 553.262 | 652.330 | 780.389 | 893.473 | 994.520 | 1123.563 | 1252.606 | 1380 | |
| y | A | E | L | Q | E | V | Q | I | T | E | E | K* | P | L | L | P | Q | T | P | E | A | A | K | 147.113 | 218.150 | 289.187 | 418.230 | 515.282 | 616.330 | 744.389 | 801.410 | 898.463 | 1011.547 | 1124.631 | 1221 | |
| y-17 | A | E | L | Q | E | V | Q | I | T | E | E | K* | P | L | L | P | Q | T | P | E | A | A | K | 130.086 | 201.123 | 272.160 | 401.203 | 498.256 | 599.304 | 727.362 | 784.384 | 881.436 | 994.520 | 1107.604 | 1204 | |
| y-18 | A | E | L | Q | E | V | Q | I | T | E | E | K* | P | L | L | P | Q | T | P | E | A | A | K | - | - | - | 400.219 | 497.272 | 598.320 | 726.378 | 783.400 | 880.452 | 993.536 | 1106.620 | 1203 | |
| | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Ala | Ala | Glu | Pro | Thr | Gln | Gly | Pro | Leu | Leu | Pro |

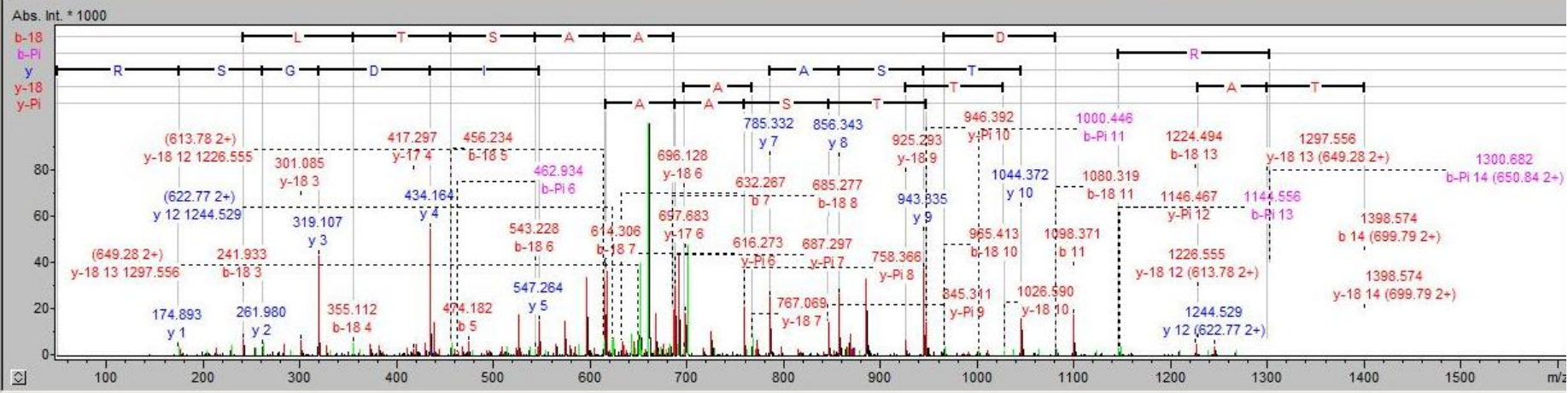


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: T A S L T S A A S I D G S R (Peptide Mods: 1: Phospho (ST) 9: Phospho (ST))

MH+(mono): 1496.603 MH+(avg): 1497.376 MS/MS Tol: 0.500 Da Peaks: 110 Above Threshold: 110 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 39 Not Assigned: 71 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 182.021 | 253.058 | 340.090 | 453.174 | 554.222 | 641.254 | 712.291 | 783.328 | 950.327 | 1063.411 | 1178.438 | 1235.459 | 1322.491 | 1478.592 |
| b-17 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | - | - | - | - | - | - | - | - | - | - | - | - | 1461.566 |
| b-18 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 164.011 | 235.048 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 932.316 | 1045.400 | 1160.427 | 1217.449 | 1304.481 | 1460.582 |
| b-Pi | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| y | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1496.603 |
| y-17 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1479.576 |
| y-18 | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1478.592 |
| y-Pi | T* | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1398.626 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | |



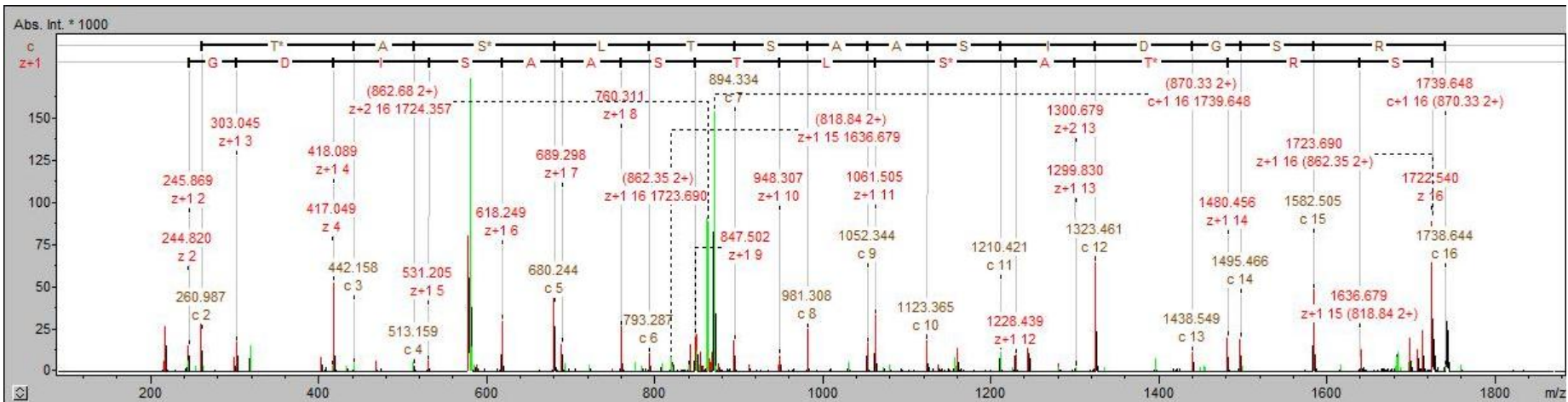
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **TASLTSAASIDGSR** (Peptide Mods: 9: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS Tol: 0.500 Da Peaks: 134 Above Threshold: 134 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 44 Not Assigned: 90 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|----|----|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 102.055 | 173.092 | 260.124 | 373.208 | 474.256 | 561.288 | 632.325 | 703.362 | 870.360 | 983.445 | 1098.471 | 1155.493 | 1242.525 | 1398.626 |
| b-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | - | - | - | - | - | - | - | - | - | - | - | - | 1381.600 |
| b-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| b-PI | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 4.078 | 75.115 | 162.147 | 275.231 | 376.279 | 463.311 | 534.348 | 605.385 | 772.384 | 885.468 | 1000.495 | 1057.516 | 1144.548 | 1300.649 |
| y | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 714.282 | 785.319 | 856.356 | 943.388 | 1044.436 | 1157.520 | 1244.552 | 1315.589 | 1416.637 |
| y-17 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 697.255 | 768.292 | 839.329 | 926.362 | 1027.409 | 1140.493 | 1227.525 | 1298.562 | 1399.610 |
| y-18 | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | 244.140 | 301.162 | 416.189 | 529.273 | 696.271 | 767.308 | 838.345 | 925.378 | 1026.425 | 1139.509 | 1226.541 | 1297.578 | 1398.626 |
| y-PI | T | A | S | L | T | S | A | A | S* | I | D | G | S | R | | - | 164.174 | 221.196 | 336.222 | 449.307 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1318.660 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | |



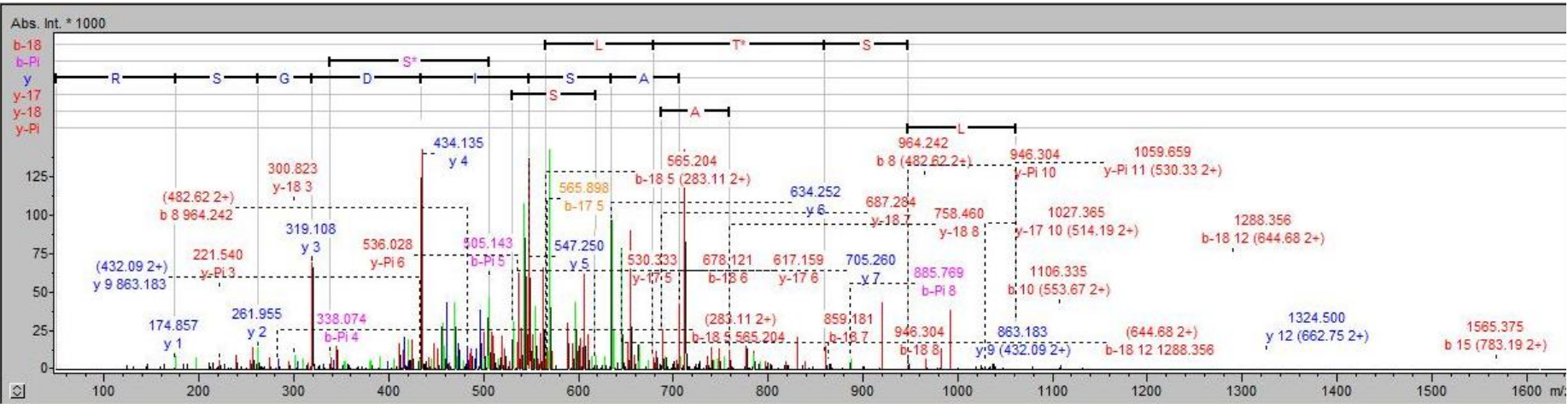
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SRTAALSTASIDGSR (Peptide Mods: 3: Phospho (ST) 5: Phospho (ST))

MH+(mono): 1739.736 MH+(avg): 1740.639 MS/MS To: 0.500 Da Peaks: 102 Above Threshold: 102 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 36 Not Assigned: 66 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly |
|-----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|--------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| c | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 105.066 | 261.167 | 442.181 | 513.218 | 680.216 | 793.301 | 894.348 | 981.380 | 1052.417 | 1123.454 | 1210.486 | 1323.571 | 1438.597 | 1495.6 |
| c+1 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 106.074 | 262.175 | 443.189 | 514.226 | 681.224 | 794.308 | 895.356 | 982.388 | 1053.425 | 1124.462 | 1211.494 | 1324.578 | 1439.605 | 1496.6 |
| z | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1227.525 | 1298.562 | 1479.5 |
| z+1 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 159.100 | 246.132 | 303.154 | 418.181 | 531.265 | 618.297 | 689.334 | 760.371 | 847.403 | 948.451 | 1061.535 | 1228.533 | 1299.570 | 1480.5 |
| z+2 | S | R | T* | A | S* | L | T | S | A | A | S | I | D | G | S | R | 160.108 | 247.140 | 304.162 | 419.188 | 532.273 | 619.305 | 690.342 | 761.379 | 848.411 | 949.459 | 1062.543 | 1229.541 | 1300.578 | 1481.5 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |



Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

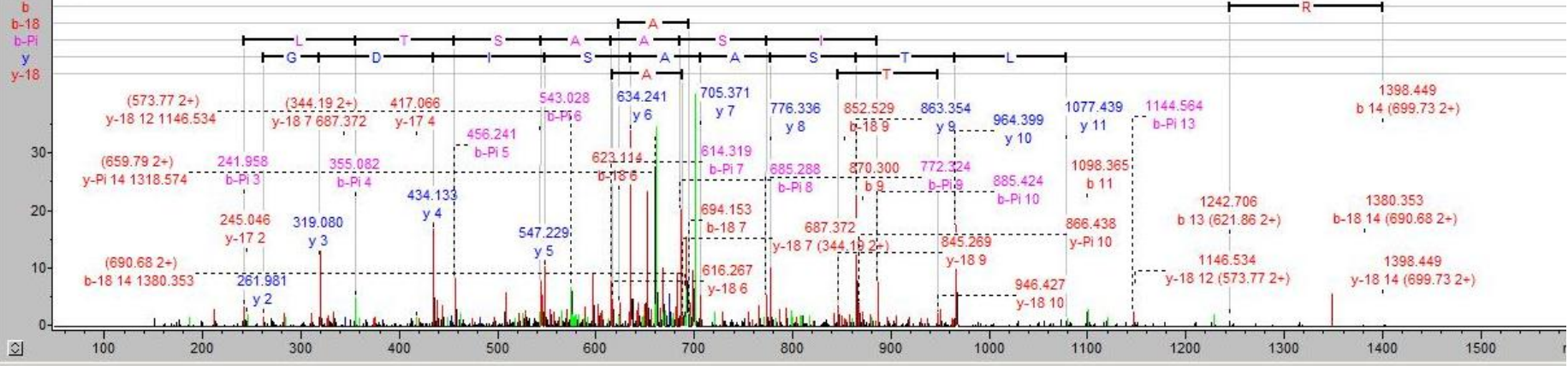
Sequence: **SRTASLTSAASIDGSR** (Peptide Mods: 5: Phosfo (ST) 7: Phosfo (ST))

MH+(mono): 1739.736 MH+(avg): 1740.639 MS/MS Tol: 0.500 Da Peaks: 124 Above Threshold: 124 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 32 Not Assigned: 92 1+, m/z: 0.000

| | S | R | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Ser | Arg | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S | R | T | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 88.039 | 244.140 | 345.188 | 416.225 | 583.224 | 696.308 | 877.322 | 964.354 | 1035.391 | 1106.428 | 1193.460 | 1306.544 | 1421.571 | 1478 |
| b-17 | S | R | T | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 227.114 | 328.162 | 399.199 | 566.197 | 679.281 | 860.295 | 947.327 | 1018.364 | 1089.401 | 1176.433 | 1289.517 | 1404.544 | 1461 |
| b-18 | S | R | T | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 70.029 | 226.130 | 327.178 | 398.215 | 565.213 | 678.297 | 859.311 | 946.343 | 1017.380 | 1088.417 | 1175.449 | 1288.533 | 1403.560 | 1460 |
| b-Pi | S | R | T | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 166.039 | 267.086 | 338.123 | 505.122 | 618.206 | 799.220 | 886.252 | 957.289 | 1028.326 | 1115.358 | 1228.442 | 1343.469 | 1400 |
| y | S | R | T | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 1044.436 | 1157.520 | 1324.518 | 1395.555 | 1496 |
| y-17 | S | R | T | A | S* | L | T* | S | A | A | S | I | D | G | S | R | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 1027.409 | 1140.493 | 1307.492 | 1378.529 | 1479 |
| y-18 | S | R | T | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 1026.425 | 1139.509 | 1306.508 | 1377.545 | 1478 |
| y-Pi | S | R | T | A | S* | L | T* | S | A | A | S | I | D | G | S | R | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 946.459 | 1059.543 | 1226.541 | 1297.578 | 1398 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr |

Abs. Int. * 1000

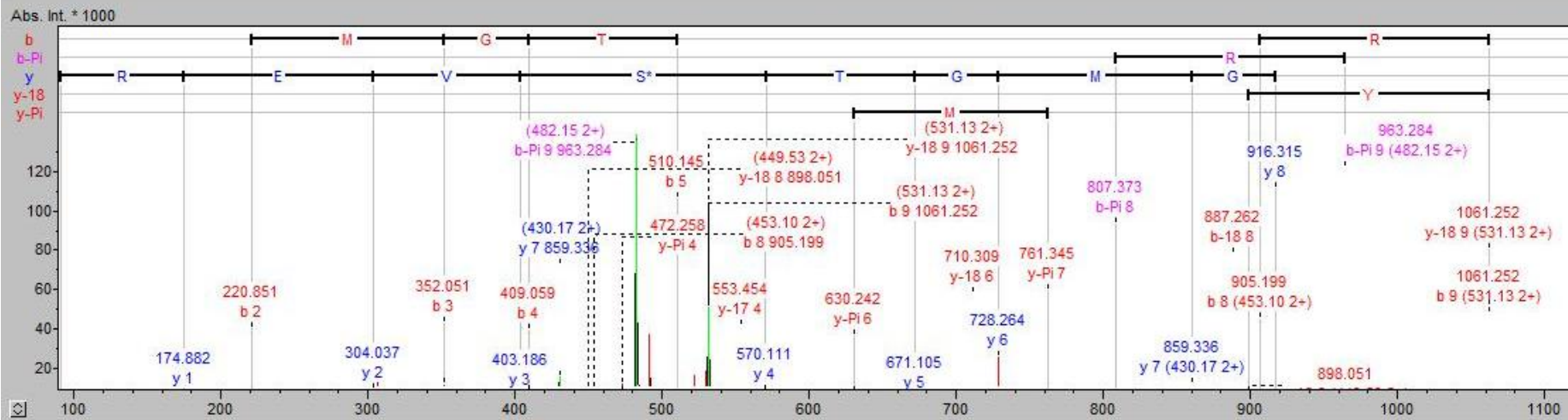


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **TASLTSAAIDGSR** (Peptide Mods: 1: Phospho (ST))

MH+(mono): 1416.637 MH+(avg): 1417.396 MS/MS Tol: 0.500 Da Peaks: 139 Above Threshold: 139 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 37 Not Assigned: 102 1+, m/z: 0.000

| | T | A | S | L | T | S | A | A | S | I | D | G | S | R | Thr | Ala | Ser | Leu | Thr | Ser | Ala | Ala | Ser | Ile | Asp | Gly | Ser | Arg | |
|------|----|----|----|----|----|---|---|---|---|----|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | | 182.021 | 253.058 | 340.090 | 453.174 | 554.222 | 641.254 | 712.291 | 783.328 | 870.360 | 983.445 | 1098.471 | 1155.493 | 1242.525 | 1398.626 |
| b-17 | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | | - | - | - | - | - | - | - | - | - | - | - | - | - | 1381.600 |
| b-18 | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | | 164.011 | 235.048 | 322.080 | 435.164 | 536.212 | 623.244 | 694.281 | 765.318 | 852.350 | 965.434 | 1080.461 | 1137.482 | 1224.514 | 1380.615 |
| b-Pi | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | | 84.044 | 155.082 | 242.114 | 355.198 | 456.245 | 543.277 | 614.314 | 685.352 | 772.384 | 885.468 | 1000.495 | 1057.516 | 1144.548 | 1300.649 |
| y | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | | 175.119 | 262.151 | 319.172 | 434.199 | 547.283 | 634.315 | 705.353 | 776.390 | 863.422 | 964.469 | 1077.553 | 1164.586 | 1235.623 | 1416.637 |
| y-17 | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | | 158.092 | 245.124 | 302.146 | 417.173 | 530.257 | 617.289 | 688.326 | 759.363 | 846.395 | 947.443 | 1060.527 | 1147.559 | 1218.596 | 1399.610 |
| y-18 | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | | - | 244.140 | 301.162 | 416.189 | 529.273 | 616.305 | 687.342 | 758.379 | 845.411 | 946.459 | 1059.543 | 1146.575 | 1217.612 | 1398.626 |
| y-Pi | T* | A | S | L | T | S | A | A | S | I | D | G | S | R | | - | 164.174 | 221.196 | 336.222 | 449.307 | 536.339 | 607.376 | 678.413 | 765.445 | 866.493 | 979.577 | 1066.609 | 1137.646 | 1318.660 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | Gly | Asp | Ile | Ser | Ala | Ala | Ser | Thr | Leu | Ser | Ala | Thr | |



Sequence: YGMGTSVER (Peptide Mods: 6: Phospho (ST))

MH+(mono): 1079.423

MH+(avg): 1080.090

MS/MS Tol: 0.500

Da

Peaks: 97

Above Threshold: 97

Zoom to m/z for 2+

Zoom +/-: 5 Da

Masses:

Monoisotopic Average

Calculate: Masses

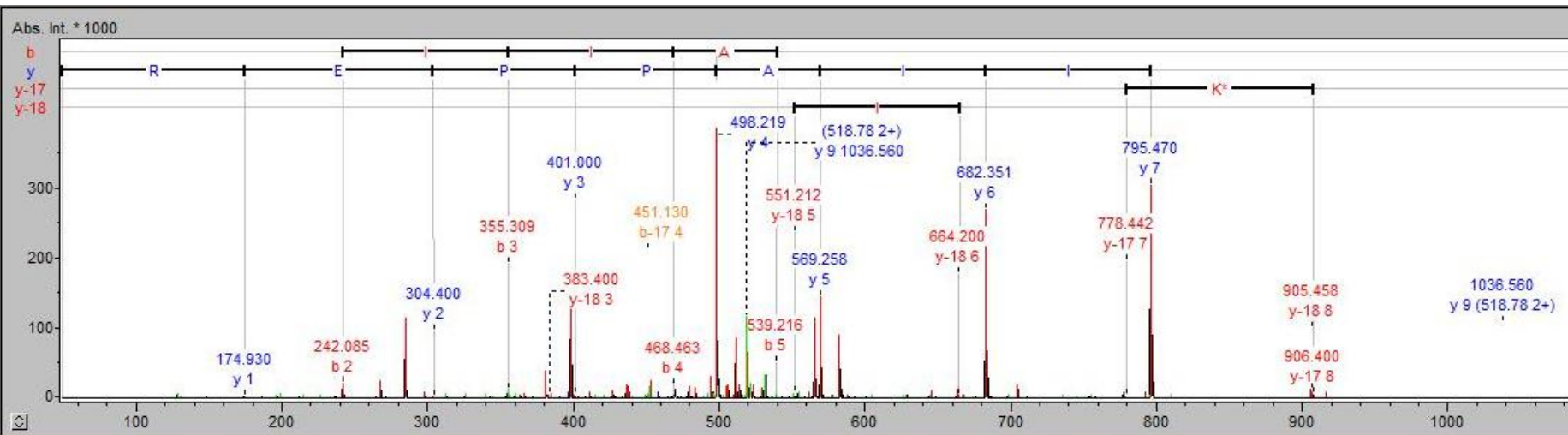
Threshold: 0.000

Assigned: 24

Not Assigned: 73

1+, m/z: 0.000

| | Y | G | M | G | T | S* | V | E | R | Tyr | Gly | Met | Gly | Thr | Ser | Val | Glu | Arg |
|------|---|---|---|---|---|----|---|---|---|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| b | Y | G | M | G | T | S* | V | E | R | 164.071 | 221.092 | 352.133 | 409.154 | 510.202 | 677.200 | 776.268 | 905.311 | 1061.412 |
| b-17 | Y | G | M | G | T | S* | V | E | R | - | - | - | - | - | - | - | - | 1044.386 |
| b-18 | Y | G | M | G | T | S* | V | E | R | - | - | - | - | 492.191 | 659.189 | 758.258 | 887.300 | 1043.402 |
| b-PI | Y | G | M | G | T | S* | V | E | R | - | - | - | - | 412.225 | 579.223 | 678.292 | 807.334 | 963.435 |
| y | Y | G | M | G | T | S* | V | E | R | 175.119 | 304.162 | 403.230 | 570.228 | 671.276 | 728.297 | 859.338 | 916.359 | 1079.423 |
| y-17 | Y | G | M | G | T | S* | V | E | R | 158.092 | 287.135 | 386.203 | 553.202 | 654.249 | 711.271 | 842.311 | 899.333 | 1062.396 |
| y-18 | Y | G | M | G | T | S* | V | E | R | - | 286.151 | 385.219 | 552.218 | 653.265 | 710.287 | 841.327 | 898.349 | 1061.412 |
| y-PI | Y | G | M | G | T | S* | V | E | R | - | - | - | 472.251 | 573.299 | 630.321 | 761.361 | 818.383 | 981.446 |
| | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Glu | Val | Ser | Thr | Gly | Met | Gly | Tyr |

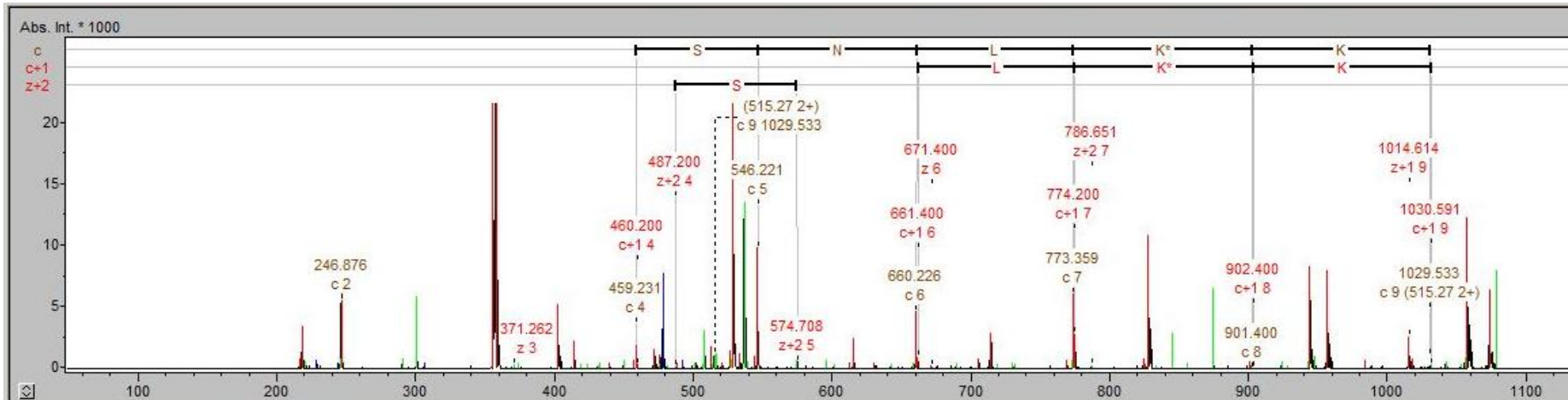


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **IKIAPPER** (Peptide Mods: 2: Acetyl (K))

MH+(mono): 1036.651 MH+(avg): 1037.278 MS/MS Tol: 0.500 Da Peaks: 94 Above Threshold: 94 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 19 Not Assigned: 75 1+, m/z: 286.151

| | I | K* | I | I | A | P | P | E | R | Ile | Lys | Ile | Ile | Ala | Pro | Pro | Glu | Arg |
|------|---|----|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| b | 1 | K* | I | I | A | P | P | E | R | 114.091 | 242.186 | 355.270 | 468.354 | 539.392 | 636.444 | 733.497 | 862.540 | 1018.641 |
| b-17 | 1 | K* | I | I | A | P | P | E | R | - | 225.160 | 338.244 | 451.328 | 522.365 | 619.418 | 716.471 | 845.513 | 1001.614 |
| b-18 | 1 | K* | I | I | A | P | P | E | R | - | - | - | - | - | - | - | 844.529 | 1000.630 |
| y | 1 | K* | I | I | A | P | P | E | R | 175.119 | 304.162 | 401.214 | 498.267 | 569.304 | 682.388 | 795.472 | 923.567 | 1036.651 |
| y-17 | 1 | K* | I | I | A | P | P | E | R | 158.092 | 287.135 | 384.188 | 481.241 | 552.278 | 665.362 | 778.446 | 906.541 | 1019.625 |
| y-18 | 1 | K* | I | I | A | P | P | E | R | - | 286.151 | 383.204 | 480.257 | 551.294 | 664.378 | 777.462 | 905.557 | 1018.641 |
| | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Glu | Pro | Pro | Ala | Ile | Ile | Lys | Ile |



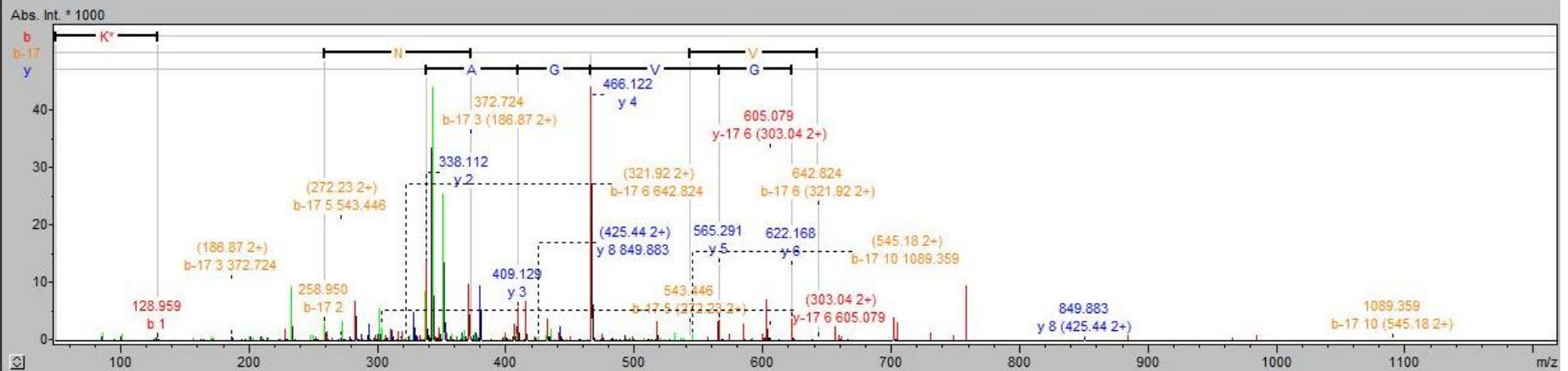
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: TQLVSNLKK (Peptide Mods: 8: Acetyl (K))

MH+(mono): 1030.626 MH+(avg): 1031.229 MS/MS To: 0.500 Da Peaks: 98 Above Threshold: 98 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 18 Not Assigned: 80 1+, m/z: 248,148

| | T | Q | L | V | S | N | L | K | K | Thr | Gln | Leu | Val | Ser | Asn | Leu | Lys | Lys |
|-----|---|---|---|---|---|---|---|----|---|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| c | T | Q | L | V | S | N | L | K* | K | 119.082 | 247.140 | 360.224 | 459.293 | 546.325 | 660.368 | 773.452 | 901.547 | 1029.642 |
| c+1 | T | Q | L | V | S | N | L | K* | K | 120.089 | 248.148 | 361.232 | 460.300 | 547.332 | 661.375 | 774.459 | 902.554 | 1030.649 |
| z | T | Q | L | V | S | N | L | K* | K | 130.086 | 258.181 | 371.265 | 485.308 | 572.340 | 671.409 | 784.493 | 912.551 | 1013.599 |
| z+1 | T | Q | L | V | S | N | L | K* | K | 131.094 | 259.189 | 372.273 | 486.316 | 573.348 | 672.416 | 785.501 | 913.559 | 1014.607 |
| z+2 | T | Q | L | V | S | N | L | K* | K | 132.102 | 260.197 | 373.281 | 487.324 | 574.356 | 673.424 | 786.508 | 914.567 | 1015.615 |
| | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Lys | Leu | Asn | Ser | Val | Leu | Gln | Thr |



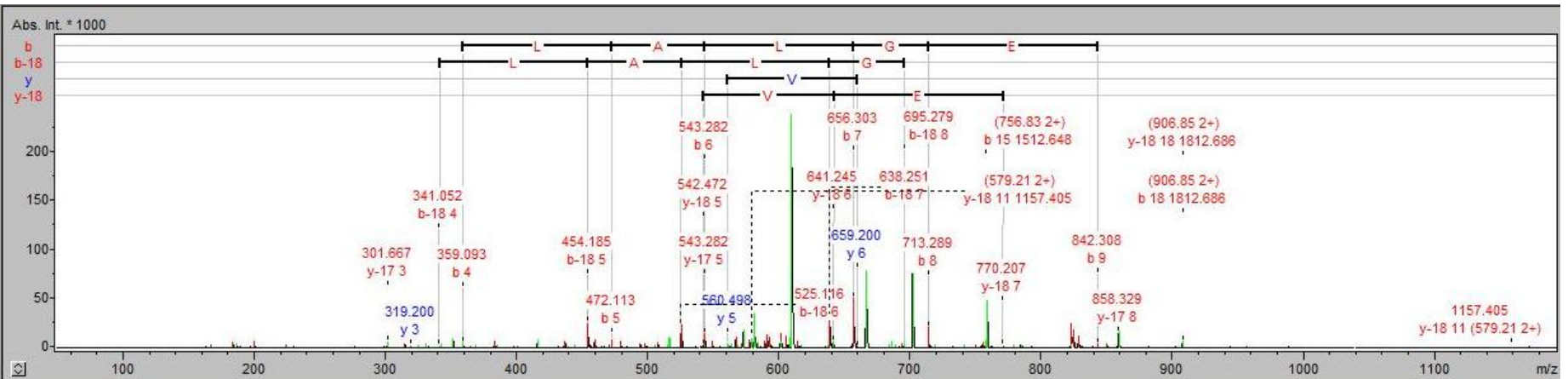
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **KMNLGVGAYR** (Peptide Mods: 2: Oxidation (M) 1: Acetyl (K))

MH+(mono): 1124.588 MH+(avg): 1125.325 MS/MS To: 0.500 Da Peaks: 104 Above Threshold: 104 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 13 Not Assigned: 91 1+, m/z: 0.000

| | K | M | N | L | G | V | G | A | Y | R | Lys | Met | Asn | Leu | Gly | Val | Gly | Ala | Tyr | Arg |
|------|----|----|---|---|---|---|---|---|---|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| b | K* | M* | N | L | G | V | G | A | Y | R | 129.102 | 276.138 | 390.181 | 503.265 | 560.286 | 659.355 | 716.376 | 787.413 | 950.476 | 1106.578 |
| b-17 | K* | M* | N | L | G | V | G | A | Y | R | 112.076 | 259.111 | 373.154 | 486.238 | 543.260 | 642.328 | 699.349 | 770.387 | 933.450 | 1089.551 |
| b-18 | K* | M* | N | L | G | V | G | A | Y | R | - | - | - | - | - | - | - | - | - | - |
| y | K* | M* | N | L | G | V | G | A | Y | R | 175.119 | 338.182 | 409.219 | 466.241 | 565.309 | 622.331 | 735.415 | 849.458 | 996.493 | 1124.588 |
| y-17 | K* | M* | N | L | G | V | G | A | Y | R | 158.092 | 321.156 | 392.193 | 449.214 | 548.283 | 605.304 | 718.388 | 832.431 | 979.467 | 1107.562 |
| y-18 | K* | M* | N | L | G | V | G | A | Y | R | - | - | - | - | - | - | - | - | - | - |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Tyr | Ala | Gly | Val | Gly | Leu | Asn | Met | Lys |



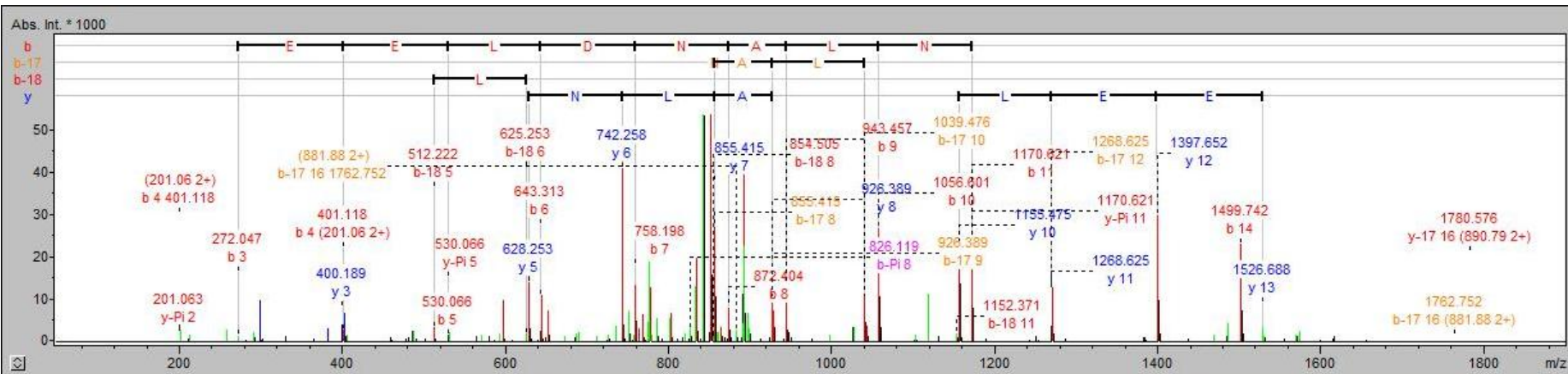
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: ASAEALGENSEVLKSGR (Peptide Mods: 15: Acetyl (K))

MH+(mono): 1830.956 MH+(avg): 1832.001 MS/MS To: 0.500 Da Peaks: 96 Above Threshold: 96 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 24 Not Assigned: 72 1+, m/z: 1288.686

| | A | S | A | E | L | A | L | G | E | N | S | E | V | L | K | S | G | R | Ala | Ser | Ala | Glu | Leu | Ala | Leu | Gly | Glu | Asn | Ser | Glu | Val | |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | A | S | A | E | L | A | L | G | E | N | S | E | V | L | K* | S | G | R | 72.044 | 159.076 | 230.114 | 359.156 | 472.240 | 543.277 | 656.361 | 713.383 | 842.425 | 956.468 | 1043.500 | 1172.543 | 1271.611 | |
| b-17 | A | S | A | E | L | A | L | G | E | N | S | E | V | L | K* | S | G | R | - | - | - | - | - | - | - | - | - | 939.442 | 1026.474 | 1155.516 | 1254.585 | |
| b-18 | A | S | A | E | L | A | L | G | E | N | S | E | V | L | K* | S | G | R | - | 141.066 | 212.103 | 341.146 | 454.230 | 525.267 | 638.351 | 695.372 | 824.415 | 938.458 | 1025.490 | 1154.532 | 1253.601 | |
| y | A | S | A | E | L | A | L | G | E | N | S | E | V | L | K* | S | G | R | 175.119 | 232.140 | 319.172 | 447.267 | 560.351 | 659.420 | 788.462 | 875.495 | 989.537 | 1118.580 | 1175.601 | 1288.686 | 1359.723 | |
| y-17 | A | S | A | E | L | A | L | G | E | N | S | E | V | L | K* | S | G | R | 158.092 | 215.114 | 302.146 | 430.241 | 543.325 | 642.393 | 771.436 | 858.468 | 972.511 | 1101.553 | 1158.575 | 1271.659 | 1342.696 | |
| y-18 | A | S | A | E | L | A | L | G | E | N | S | E | V | L | K* | S | G | R | - | - | 301.162 | 429.257 | 542.341 | 641.409 | 770.452 | 857.484 | 971.527 | 1100.569 | 1157.591 | 1270.675 | 1341.712 | |
| | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Gly | Ser | Lys | Leu | Val | Glu | Ser | Asn | Glu | Gly | Leu | Ala | |



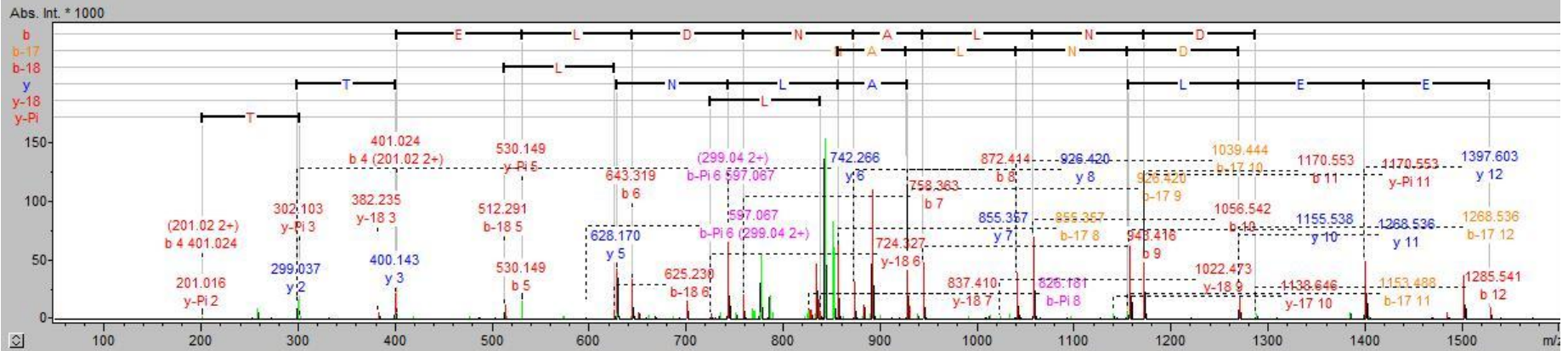
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: AISEELDNDITSL (Peptide Mods: 15: Phospho (ST))

MH+(mono): 1797.815 MH+(avg): 1798.817 MS/MS Tol: 0.500 Da Peaks: 79 Above Threshold: 79 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 33 Not Assigned: 46 1+, m/z: 0.000

| | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S | L | Ala | Ile | Ser | Glu | Glu | Leu | Asp | Asn | Ala | Leu | Asn | Asp | Ile | Thr |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | 72.044 | 185.128 | 272.160 | 401.203 | 530.246 | 643.330 | 758.357 | 872.400 | 943.437 | 1056.521 | 1170.564 | 1285.591 | 1398.675 | 1499.742 |
| b-17 | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | - | - | - | - | - | - | 855.373 | 926.410 | 1039.494 | 1153.537 | 1268.564 | 1381.648 | 1482.681 |
| b-18 | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | - | 254.150 | 383.193 | 512.235 | 625.319 | 740.346 | 854.389 | 925.426 | 1038.510 | 1152.553 | 1267.580 | 1380.664 | 1481.697 |
| b-Pi | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | 25.933 | - | 226.049 | 355.091 | 484.134 | 597.218 | 712.245 | 826.288 | 897.325 | 1010.409 | 1124.452 | 1239.479 | 1352.563 | 1453.596 |
| y | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | 132.102 | 299.100 | 400.148 | 513.232 | 628.259 | 742.302 | 855.388 | 926.423 | 1040.466 | 1155.493 | 1268.577 | 1397.620 | 1528.662 | 1613.699 |
| y-17 | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | - | - | - | - | 725.275 | 838.359 | 909.397 | 1023.439 | 1138.466 | 1251.550 | 1380.593 | 1509.636 | 1596.673 |
| y-18 | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | 281.090 | 382.137 | 495.221 | 610.248 | 724.291 | 837.375 | 908.412 | 1022.455 | 1137.482 | 1250.566 | 1379.609 | 1508.652 | 1595.689 |
| y-Pi | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | 201.123 | 302.171 | 415.255 | 530.282 | 644.325 | 757.409 | 828.446 | 942.489 | 1057.516 | 1170.600 | 1299.643 | 1428.685 | 1515.722 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Leu | Ser | Thr | Ile | Asp | Asn | Leu | Ala | Asn | Asp | Leu | Glu | Glu | Ser |



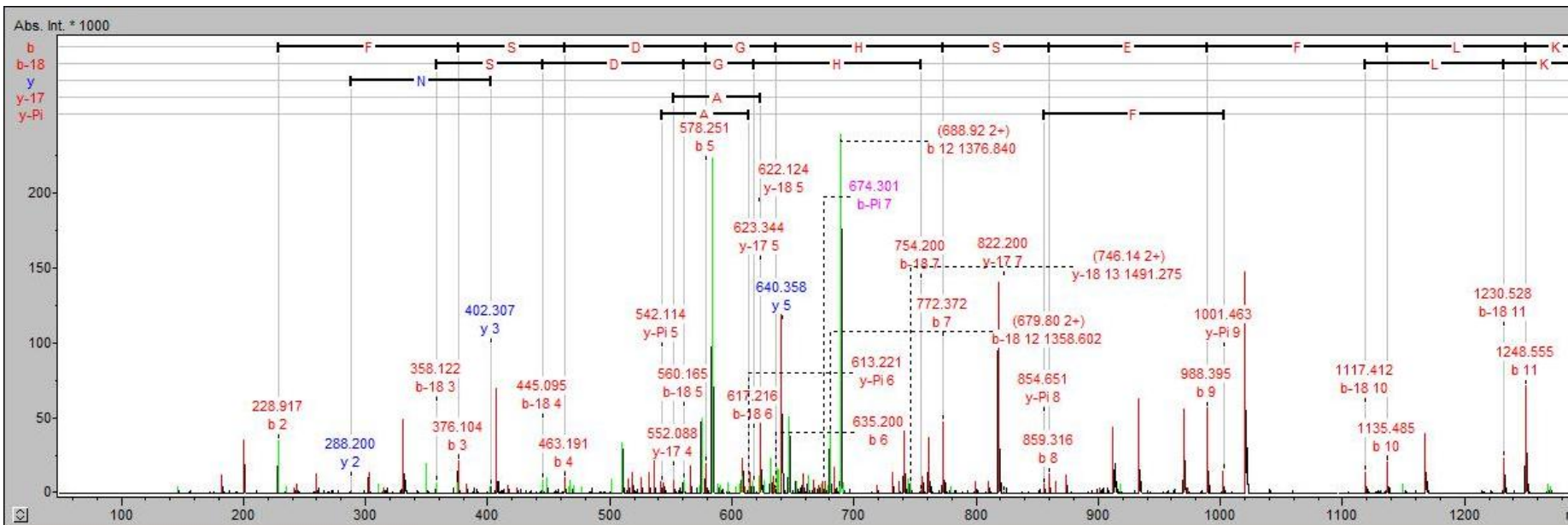
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: AISEELDNALNDITSL (Peptide Mods: 15: Phospho (ST))

MH+(mono): 1797.815 MH+(avg): 1798.817 MS/MS To: 0.500 Da Peaks: 82 Above Threshold: 82 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 41 Not Assigned: 41 1+, m/z: 0.000

| | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S | L | Ala | Ile | Ser | Glu | Glu | Leu | Asp | Asn | Ala | Leu | Asn | Asp | Ile | Thr |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|-------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | 72.044 | 185.128 | 272.160 | 401.203 | 530.246 | 643.330 | 758.357 | 872.400 | 943.437 | 1056.521 | 1170.564 | 1285.591 | 1398.675 | 1499. |
| b-17 | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | - | - | - | - | - | - | 855.373 | 926.410 | 1039.494 | 1153.537 | 1268.564 | 1381.648 | 1482. |
| b-18 | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | - | 254.150 | 383.193 | 512.235 | 625.319 | 740.346 | 854.389 | 925.426 | 1038.510 | 1152.553 | 1267.580 | 1380.664 | 1481. |
| b-Pi | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | 25.933 | - | 226.049 | 355.091 | 484.134 | 597.218 | 712.245 | 826.288 | 897.325 | 1010.409 | 1124.452 | 1239.479 | 1352.563 | 1453. |
| y | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | 132.102 | 299.100 | 400.148 | 513.232 | 628.259 | 742.302 | 855.386 | 926.423 | 1040.466 | 1155.493 | 1268.577 | 1397.620 | 1526.662 | 1613. |
| y-17 | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | - | - | - | - | 725.275 | 838.359 | 909.397 | 1023.439 | 1138.466 | 1251.550 | 1380.593 | 1509.636 | 1596. |
| y-18 | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | 281.090 | 382.137 | 495.221 | 610.248 | 724.291 | 837.375 | 908.412 | 1022.455 | 1137.482 | 1250.566 | 1379.609 | 1508.652 | 1595. |
| y-Pi | A | I | S | E | E | L | D | N | A | L | N | D | I | T | S* | L | - | 201.123 | 302.171 | 415.255 | 530.282 | 644.325 | 757.409 | 828.446 | 942.489 | 1057.516 | 1170.600 | 1299.643 | 1428.685 | 1515. |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Leu | Ser | Thr | Ile | Asp | Asn | Leu | Ala | Asn | Asp | Leu | Glu | Glu | Ser |



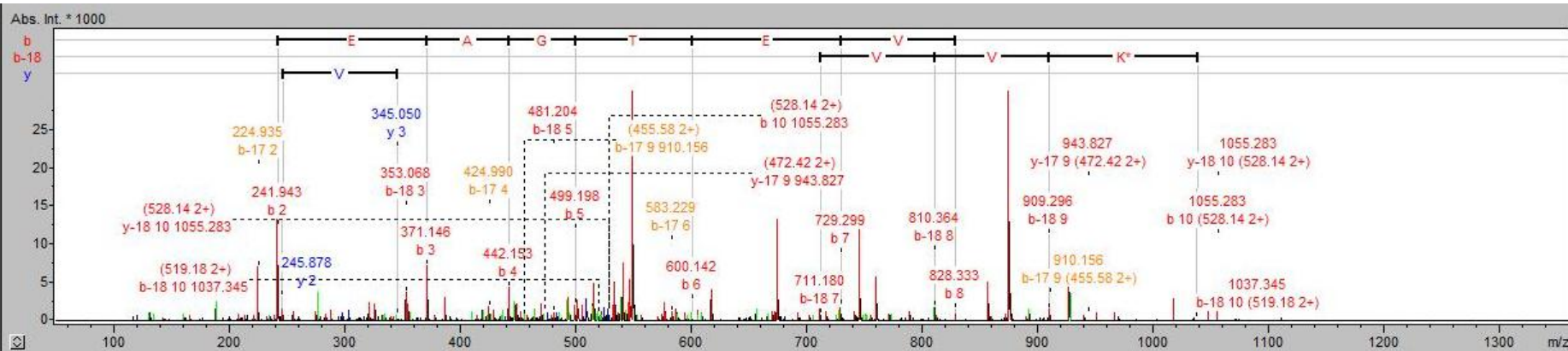
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **DLFSDGHSEFLKAASNLK** (Peptide Mods: 15: Phospho (ST))

MH+(mono): 2086.959 MH+(avg): 2088.155 MS/MS Tol: 0.500 Da Peaks: 119 Above Threshold: 119 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 32 Not Assigned: 87 1+, m/z: 741.437

| | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S | N | L | R | Asp | Leu | Phe | Ser | Asp | Gly | His | Ser | Glu | Phe | Leu | Lys | Ala |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| b | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S* | N | L | R | 116.034 | 229.118 | 376.187 | 463.219 | 578.246 | 635.267 | 772.326 | 859.358 | 988.401 | 1135.469 | 1248.553 | 1376.648 | 1447.685 |
| b-17 | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S* | N | L | R | - | - | - | - | - | - | - | - | - | - | - | 1359.622 | 1430.659 |
| b-18 | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S* | N | L | R | 98.024 | 211.108 | 358.176 | 445.208 | 560.235 | 617.257 | 754.315 | 841.348 | 970.390 | 1117.459 | 1230.543 | 1358.638 | 1429.675 |
| b-Pi | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S* | N | L | R | - | - | - | 365.242 | 480.269 | 537.290 | 674.349 | 761.381 | 890.424 | 1037.492 | 1150.576 | 1278.671 | 1349.708 |
| y | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S* | N | L | R | 175.119 | 288.203 | 402.246 | 569.244 | 640.281 | 711.319 | 839.413 | 952.498 | 1099.566 | 1228.609 | 1315.641 | 1452.700 | 1509.721 |
| y-17 | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S* | N | L | R | 158.092 | 271.176 | 385.219 | 552.218 | 623.255 | 694.292 | 822.387 | 935.471 | 1082.539 | 1211.582 | 1298.614 | 1435.673 | 1492.694 |
| y-18 | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S* | N | L | R | - | - | - | 551.234 | 622.271 | 693.308 | 821.403 | 934.487 | 1081.555 | 1210.598 | 1297.630 | 1434.689 | 1491.710 |
| y-Pi | D | L | F | S | D | G | H | S | E | F | L | K | A | A | S* | N | L | R | - | - | - | 471.267 | 542.305 | 613.342 | 741.437 | 854.521 | 1001.589 | 1130.632 | 1217.664 | 1354.723 | 1411.744 |
| | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Leu | Asn | Ser | Ala | Ala | Lys | Leu | Phe | Glu | Ser | His | Gly |



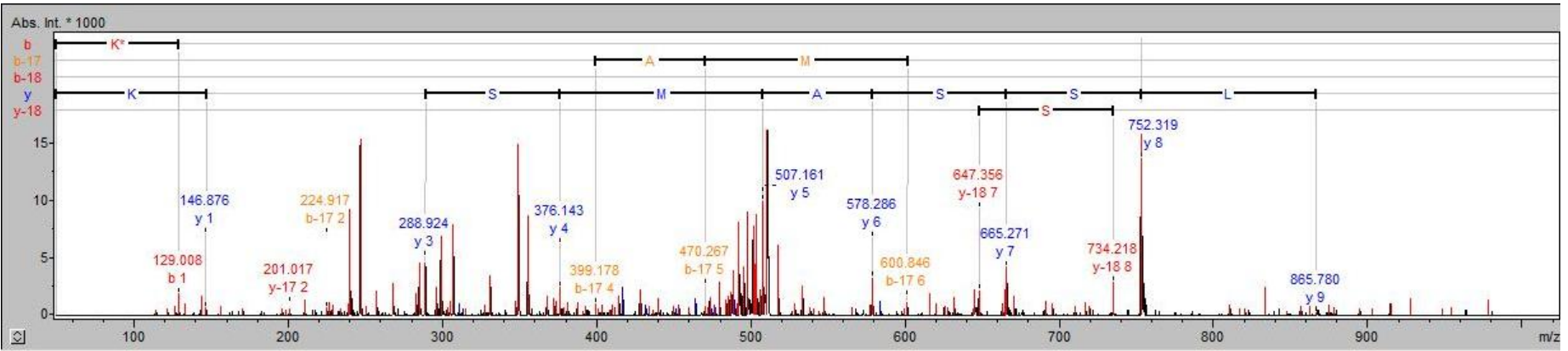
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: **IQEAGTEVVV** (Peptide Mods: 10: Acetyl (K))

MH+(mono): 1073.584 MH+(avg): 1074.207 MS/MS To: 0.500 Da Peaks: 138 Above Threshold: 138 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 22 Not Assigned: 116 1+, m/z: 0.000

| | I | Q | E | A | G | T | E | V | V | K | Ile | Gln | Glu | Ala | Gly | Thr | Glu | Val | Val | Lys |
|------|---|---|---|---|---|---|---|---|---|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| b | I | Q | E | A | G | T | E | V | V | K* | 114.091 | 242.150 | 371.193 | 442.230 | 499.251 | 600.299 | 729.341 | 828.410 | 927.478 | 1055.573 |
| b-17 | I | Q | E | A | G | T | E | V | V | K* | - | 225.123 | 354.166 | 425.203 | 482.225 | 583.272 | 712.315 | 811.383 | 910.452 | 1038.547 |
| b-18 | I | Q | E | A | G | T | E | V | V | K* | - | - | 353.182 | 424.219 | 481.241 | 582.288 | 711.331 | 810.399 | 909.468 | 1037.563 |
| y | I | Q | E | A | G | T | E | V | V | K* | 147.113 | 246.181 | 345.250 | 474.292 | 575.340 | 632.361 | 703.398 | 832.441 | 960.500 | 1073.584 |
| y-17 | I | Q | E | A | G | T | E | V | V | K* | 130.086 | 229.155 | 328.223 | 457.266 | 558.313 | 615.335 | 686.372 | 815.415 | 943.473 | 1056.557 |
| y-18 | I | Q | E | A | G | T | E | V | V | K* | - | - | - | 456.282 | 557.329 | 614.351 | 685.388 | 814.431 | 942.489 | 1055.573 |
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | Lys | Val | Val | Glu | Thr | Gly | Ala | Glu | Gln | Ile |



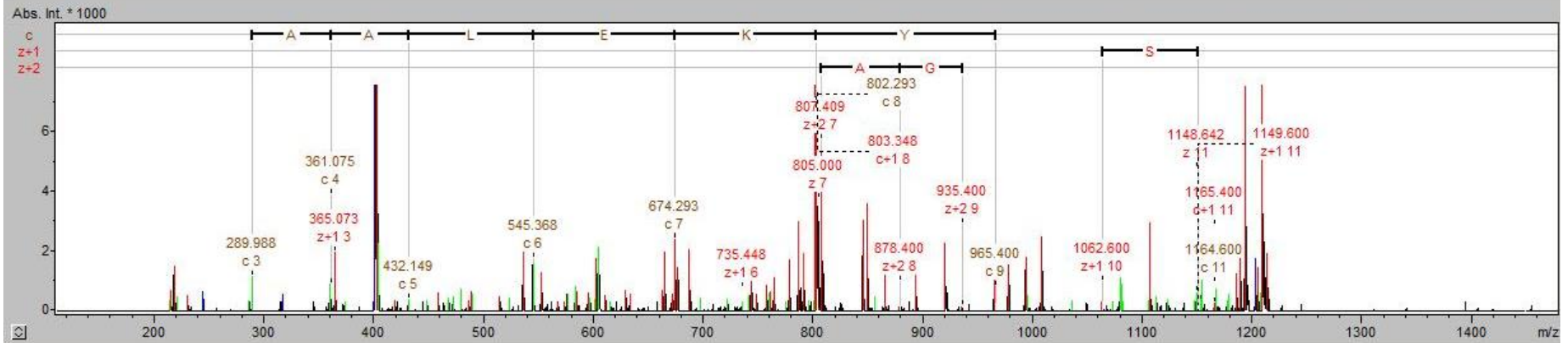
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: KLSSAMSAAK (Peptide Mods: 1: Acetyl (K))

MH+(mono): 993.540 MH+(avg): 994.190 MS/MS To: 0.500 Da Peaks: 128 Above Threshold: 128 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 21 Not Assigned: 107 1+, m/z: 0.000

| | K | L | S | S | A | M | S | A | A | K | Lys | Leu | Ser | Ser | Ala | Met | Ser | Ala | Ala | Lys |
|------|----|---|---|---|---|---|---|---|---|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| b | K* | L | S | S | A | M | S | A | A | K | 129.102 | 242.186 | 329.218 | 416.250 | 487.287 | 618.328 | 705.360 | 776.397 | 847.434 | 975.529 |
| b-17 | K* | L | S | S | A | M | S | A | A | K | 112.076 | 225.160 | 312.192 | 399.224 | 470.261 | 601.301 | 688.333 | 759.371 | 830.408 | 958.503 |
| b-18 | K* | L | S | S | A | M | S | A | A | K | - | - | 311.208 | 398.240 | 469.277 | 600.317 | 687.349 | 758.387 | 829.424 | 957.519 |
| y | K* | L | S | S | A | M | S | A | A | K | 147.113 | 218.150 | 289.187 | 376.219 | 507.260 | 578.297 | 665.329 | 752.361 | 865.445 | 993.540 |
| y-17 | K* | L | S | S | A | M | S | A | A | K | 130.086 | 201.123 | 272.160 | 359.193 | 490.233 | 561.270 | 648.302 | 735.334 | 848.418 | 976.513 |
| y-18 | K* | L | S | S | A | M | S | A | A | K | - | - | - | 358.208 | 489.249 | 560.286 | 647.318 | 734.350 | 847.434 | 975.529 |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Ala | Ala | Ser | Met | Ala | Ser | Ser | Leu | Lys |



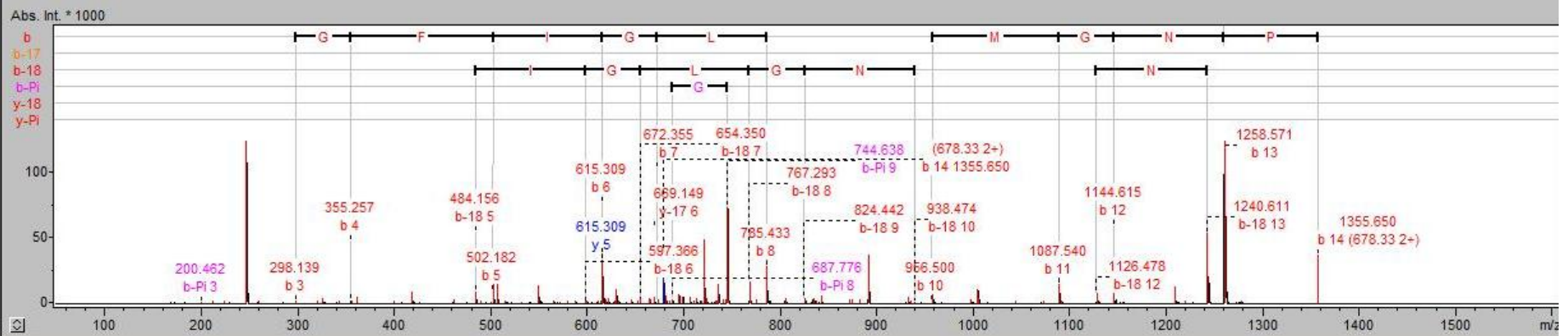
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SQGAALEKYAK (Peptide Mods: 11: Acetyl (K))

MH+(mono): 1165.621 MH+(avg): 1166.306 MS/MS To: 0.500 Da Peaks: 113 Above Threshold: 113 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 19 Not Assigned: 94 1+, m/z: 734.408

| | S | Q | G | A | A | L | E | K | Y | A | K | Ser | Gln | Gly | Ala | Ala | Leu | Glu | Lys | Tyr | Ala | Lys |
|-----|----|----|---|---|---|---|---|---|---|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| c | S | Q | G | A | A | L | E | K | Y | A | K* | 105.066 | 233.124 | 290.146 | 361.183 | 432.220 | 545.304 | 674.347 | 802.442 | 965.505 | 1036.542 | 1164.637 |
| c+1 | S | Q | G | A | A | L | E | K | Y | A | K* | 106.074 | 234.132 | 291.154 | 362.191 | 433.228 | 546.312 | 675.355 | 803.450 | 966.513 | 1037.550 | 1165.645 |
| z | S | Q | G | A | A | L | E | K | Y | A | K* | 130.086 | 201.123 | 364.187 | 492.282 | 621.324 | 734.408 | 805.445 | 876.483 | 933.504 | 1061.563 | 1148.595 |
| z+1 | S | Q | G | A | A | L | E | K | Y | A | K* | 131.094 | 202.131 | 365.195 | 493.289 | 622.332 | 735.416 | 806.453 | 877.490 | 934.512 | 1062.570 | 1149.602 |
| z+2 | S | Q | G | A | A | L | E | K | Y | A | K* | 132.102 | 203.139 | 366.202 | 494.297 | 623.340 | 736.424 | 807.461 | 878.498 | 935.520 | 1063.578 | 1150.610 |
| | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Ala | Tyr | Lys | Glu | Leu | Ala | Ala | Gly | Gln | Ser |



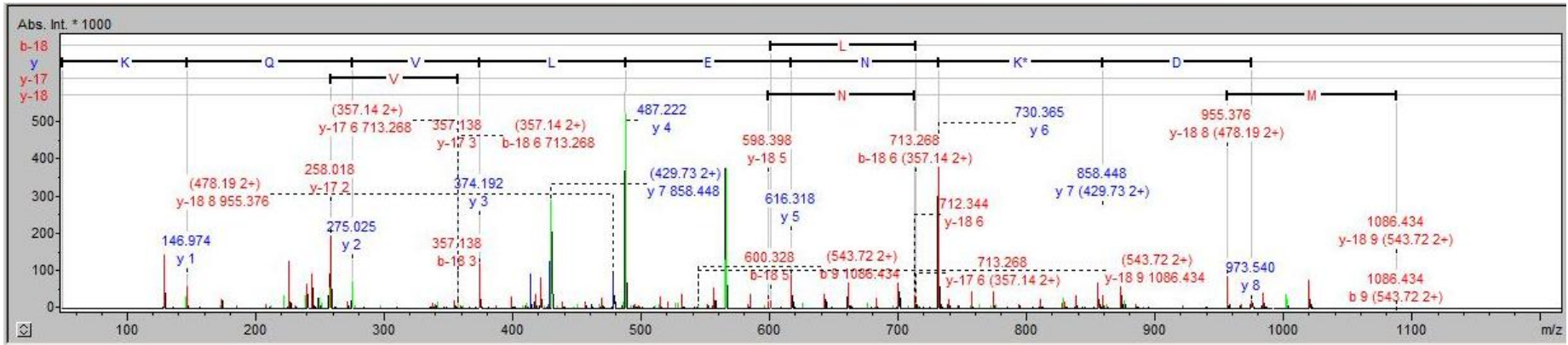
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: TPVGFILGNMGNPMAKNIK (Peptide Mods: 17: Acetyl (K) 21: Acetyl (K))

MH+(mono): 2172.167 MH+(avg): 2173.627 MS/MS To: 0.500 Da Peaks: 97 Above Threshold: 97 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 73 Not Assigned: 24 1+, m/z: 0.000

| | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K | N | L | I | K | Thr | Pro | Val | Gly | Phe | Ile | Gly | Leu | Gly | Asn | Met | Gly | | |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----|--|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| b | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K* | N | L | I | K* | 102.055 | 199.108 | 298.176 | 355.198 | 502.286 | 615.350 | 672.372 | 785.456 | 842.477 | 956.520 | 1087.560 | 1144.582 | 1: | |
| b-17 | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K* | N | L | I | K* | - | - | - | - | - | - | - | - | - | 939.493 | 1070.534 | 1127.555 | 1: | |
| b-18 | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K* | N | L | I | K* | 84.044 | 181.097 | 280.166 | 337.187 | 484.255 | 597.340 | 654.361 | 767.445 | 824.466 | 938.509 | 1069.550 | 1126.571 | 1: | |
| b-Pi | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K* | N | L | I | K* | 4.078 | 101.131 | 200.199 | 257.221 | 404.289 | 517.373 | 574.395 | 687.479 | 744.500 | 858.543 | 989.584 | 1046.605 | 1: | |
| y | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K* | N | L | I | K* | 147.113 | 260.197 | 373.281 | 487.324 | 615.419 | 686.456 | 817.496 | 914.549 | 1028.592 | 1085.614 | 1216.654 | 1330.697 | 1: | |
| y-17 | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K* | N | L | I | K* | 130.086 | 243.170 | 356.254 | 470.297 | 598.392 | 689.429 | 800.470 | 897.523 | 1011.566 | 1068.587 | 1199.628 | 1313.670 | 1: | |
| y-18 | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K* | N | L | I | K* | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| y-Pi | T | P | V | G | F | I | G | L | G | N | M | G | N | P | M | A | K* | N | L | I | K* | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Ile | Leu | Asn | Lys | Ala | Met | Pro | Asn | Gly | Met | Asn | | |



Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: MDKNELVQK (Peptide Mods: 3: Acetyl (K))

MH+(mono): 1104.572 MH+(avg): 1105.289 MS/MS Toj: 0.500 Da Peaks: 115 Above Threshold: 115 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 19 Not Assigned: 96 1+, m/z: 0.000

| | M | D | K | N | E | L | V | Q | K | Met | Asp | Lys | Asn | Glu | Leu | Val | Gln | Lys |
|------|---|---|----|---|---|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| b | M | D | K* | N | E | L | V | Q | K | 132.048 | 247.075 | 375.170 | 489.213 | 618.255 | 731.339 | 830.408 | 958.466 | 1086.561 |
| b-17 | M | D | K* | N | E | L | V | Q | K | - | - | 358.143 | 472.186 | 601.229 | 714.313 | 813.381 | 941.440 | 1069.535 |
| b-18 | M | D | K* | N | E | L | V | Q | K | - | 229.064 | 357.159 | 471.202 | 600.245 | 713.329 | 812.397 | 940.456 | 1068.551 |
| y | M | D | K* | N | E | L | V | Q | K | 147.113 | 275.171 | 374.240 | 487.324 | 616.366 | 730.409 | 858.504 | 973.531 | 1104.572 |
| y-17 | M | D | K* | N | E | L | V | Q | K | 130.086 | 258.145 | 357.213 | 470.297 | 599.340 | 713.383 | 841.478 | 956.505 | 1087.545 |
| y-18 | M | D | K* | N | E | L | V | Q | K | - | - | - | - | 598.356 | 712.399 | 840.494 | 955.521 | 1086.561 |
| | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Gln | Val | Leu | Glu | Asn | Lys | Asp | Met |



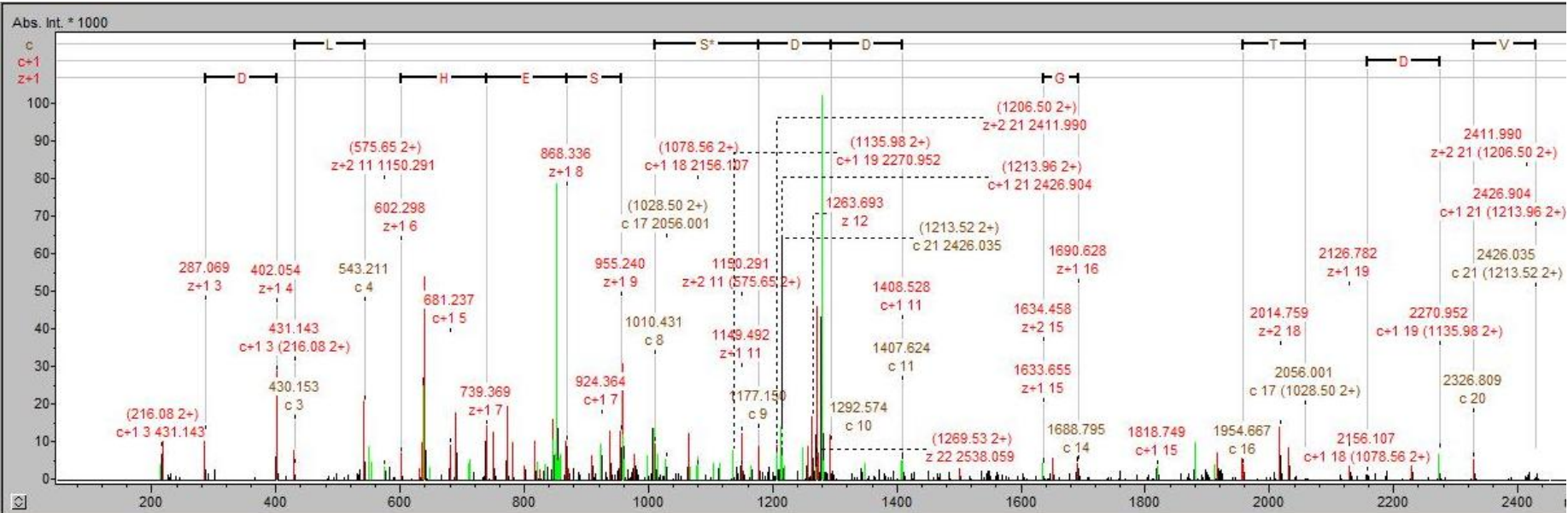
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: QFHLHWGSSDDHGSEHTVDGVK (Peptide Mods: 8: Phospho (ST))

MH+(mono): 2555.074 MH+(avg): 2556.536 MS/MS Tot: 0.500 Da Peaks: 119 Above Threshold: 119 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 44 Not Assigned: 75 1+, m/z: 131.094

| | Q | F | H | L | H | W | G | S | S | D | H | G | S | E | H | T | V | D | G | V | K | Gln | Phe | His | Leu | His | Trp | Gly | Ser | Ser | Asp | Asp | His | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|-----|---|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 |
| c | Q | F | H | L | H | W | G | S* | S | D | H | G | S | E | H | T | V | D | G | V | K | 146.092 | 293.161 | 430.220 | 543.304 | 680.363 | 866.442 | 923.463 | 1090.462 | 1177.494 | 1292.521 | 1407.548 | 1544.607 | | |
| c+1 | Q | F | H | L | H | W | G | S* | S | D | H | G | S | E | H | T | V | D | G | V | K | 147.100 | 294.169 | 431.228 | 544.312 | 681.371 | 867.450 | 924.471 | 1091.470 | 1178.502 | 1293.529 | 1408.556 | 1545.614 | | |
| z | Q | F | H | L | H | W | G | S* | S | D | H | G | S | E | H | T | V | D | G | V | K | 130.086 | 229.155 | 286.176 | 401.203 | 500.271 | 601.319 | 738.378 | 867.421 | 954.453 | 1011.474 | 1148.533 | 1263.560 | | |
| z+1 | Q | F | H | L | H | W | G | S* | S | D | H | G | S | E | H | T | V | D | G | V | K | 131.094 | 230.162 | 287.184 | 402.211 | 501.279 | 602.327 | 739.386 | 868.428 | 955.461 | 1012.482 | 1149.541 | 1264.568 | | |
| z+2 | Q | F | H | L | H | W | G | S* | S | D | H | G | S | E | H | T | V | D | G | V | K | 132.102 | 231.170 | 288.192 | 403.219 | 502.287 | 603.335 | 740.394 | 869.436 | 956.468 | 1013.490 | 1150.549 | 1265.576 | | |
| | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Val | Gly | Asp | Val | Thr | His | Glu | Ser | Gly | His | Asp | |

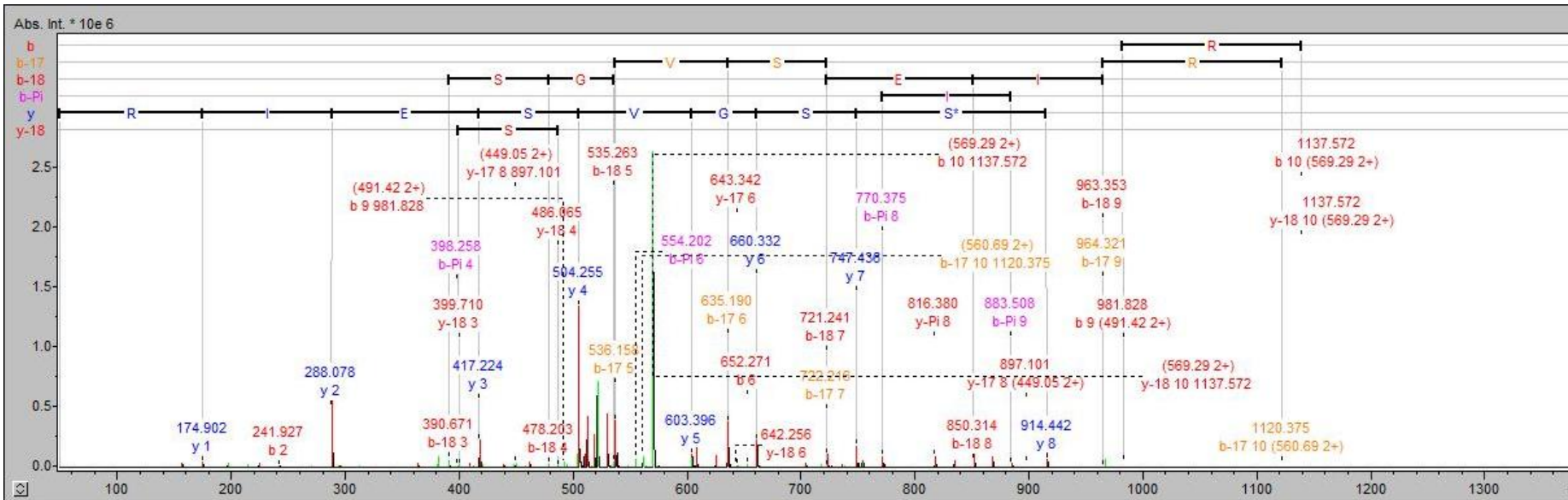


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: QFHLHWGSSDDHGSEHTVDGVK (Peptide Mods: 9: Phospho (ST))

MH+(mono): 2555.074 MH+(avg): 2556.536 MS/MS Tol: 0.500 Da Peaks: 98 Above Threshold: 98 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 35 Not Assigned: 63 1+, m/z: 0.000

| | Q | F | H | L | H | W | G | S | S | D | D | H | G | S | E | H | T | V | D | G | V | K | Gln | Phe | His | Leu | His | Trp | Gly | Ser | Ser | Asp | Asp | His |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| c | Q | F | H | L | H | W | G | S | S* | D | D | H | G | S | E | H | T | V | D | G | V | K | 146.092 | 293.161 | 430.220 | 543.304 | 680.363 | 866.442 | 923.463 | 1010.496 | 1177.494 | 1292.521 | 1407.548 | 1544.607 |
| c+1 | Q | F | H | L | H | W | G | S | S* | D | D | H | G | S | E | H | T | V | D | G | V | K | 147.100 | 294.169 | 431.228 | 544.312 | 681.371 | 867.450 | 924.471 | 1011.503 | 1178.502 | 1293.529 | 1408.556 | 1545.614 |
| z | Q | F | H | L | H | W | G | S | S* | D | D | H | G | S | E | H | T | V | D | G | V | K | 130.086 | 229.155 | 286.176 | 401.203 | 500.271 | 601.319 | 738.378 | 867.421 | 954.453 | 1011.474 | 1148.533 | 1263.560 |
| z+1 | Q | F | H | L | H | W | G | S | S* | D | D | H | G | S | E | H | T | V | D | G | V | K | 131.094 | 230.162 | 287.184 | 402.211 | 501.279 | 602.327 | 739.386 | 868.428 | 955.461 | 1012.482 | 1149.541 | 1264.568 |
| z+2 | Q | F | H | L | H | W | G | S | S* | D | D | H | G | S | E | H | T | V | D | G | V | K | 132.102 | 231.170 | 288.192 | 403.219 | 502.287 | 603.335 | 740.394 | 869.436 | 956.468 | 1013.490 | 1150.549 | 1265.576 |
| | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Val | Gly | Asp | Val | Thr | His | Glu | Ser | Gly | His | Asp |



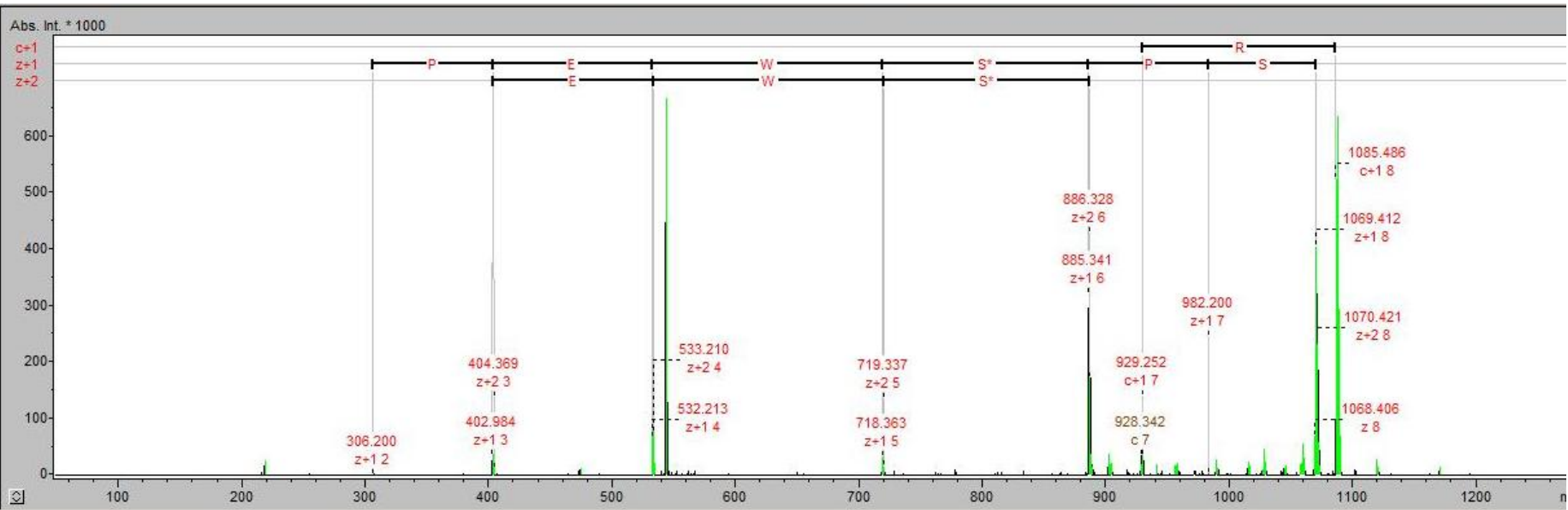
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: QLSSGVSEIR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 1155.541 MH+(avg): 1156.163 MS/MS To: 0.500 Da Peaks: 82 Above Threshold: 82 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 34 Not Assigned: 48 1+, m/z: 0.000

| Ion | Q | L | S | S | G | V | S | E | I | R | Gln | Leu | Ser | Ser | Gly | Val | Ser | Glu | Ile | Arg |
|------|----|---|----|---|---|---|---|---|---|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| b | Q | L | S* | S | G | V | S | E | I | R | 129.066 | 242.150 | 409.148 | 496.180 | 553.202 | 652.270 | 739.302 | 868.345 | 981.429 | 1137.530 |
| b-17 | Q | L | S* | S | G | V | S | E | I | R | 112.039 | 225.123 | 392.122 | 479.154 | 536.175 | 635.244 | 722.276 | 851.318 | 964.402 | 1120.503 |
| b-18 | Q | L | S* | S | G | V | S | E | I | R | - | - | 391.138 | 478.170 | 535.191 | 634.260 | 721.292 | 850.334 | 963.418 | 1119.519 |
| b-Pi | Q | L | S* | S | G | V | S | E | I | R | - | - | 311.171 | 398.203 | 455.225 | 554.293 | 641.325 | 770.368 | 883.452 | 1039.553 |
| y | Q | L | S* | S | G | V | S | E | I | R | 175.119 | 288.203 | 417.246 | 504.278 | 603.346 | 660.368 | 747.400 | 914.398 | 1027.482 | 1155.541 |
| y-17 | Q | L | S* | S | G | V | S | E | I | R | 158.092 | 271.176 | 400.219 | 487.251 | 586.320 | 643.341 | 730.373 | 897.371 | 1010.455 | 1138.514 |
| y-18 | Q | L | S* | S | G | V | S | E | I | R | - | - | 399.235 | 486.267 | 585.335 | 642.357 | 729.389 | 896.387 | 1009.471 | 1137.530 |
| y-Pi | Q | L | S* | S | G | V | S | E | I | R | - | - | - | 406.301 | 505.369 | 562.391 | 649.423 | 816.421 | 929.505 | 1057.564 |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ile | Glu | Ser | Val | Gly | Ser | Ser | Leu | Gln |



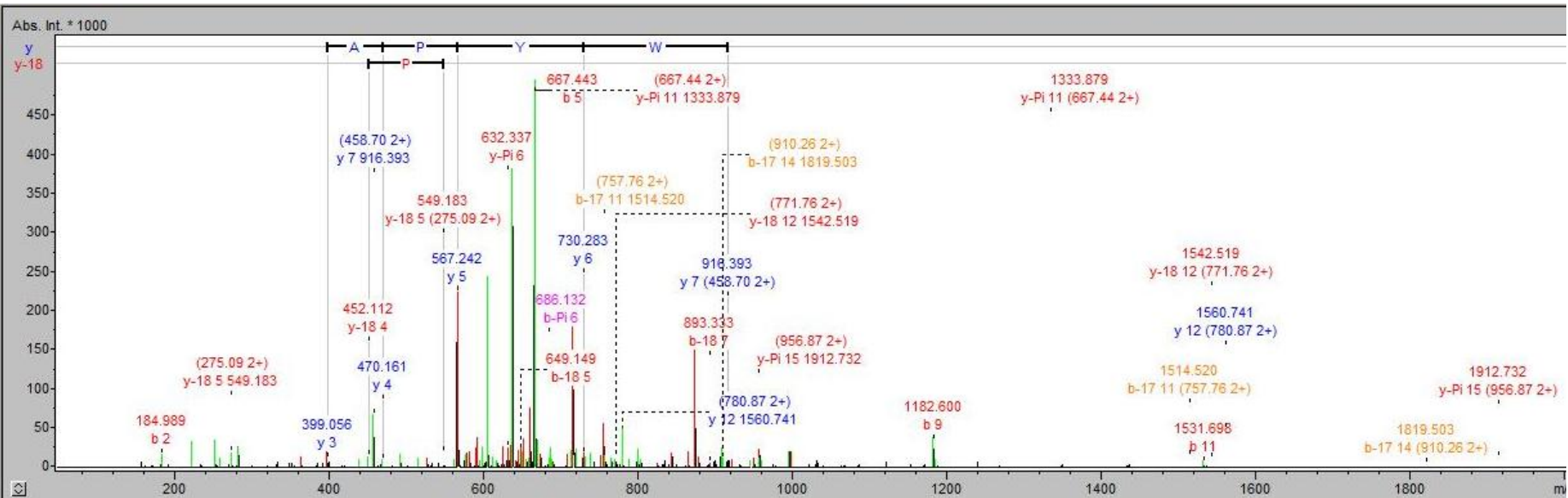
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SPSWEFPR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 1085.445 MH+(avg): 1086.073 MS/MS Tol: 0.500 Da Peaks: 52 Above Threshold: 52 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 16 Not Assigned: 36 1+, m/z: 1084.461

| | S | P | S | W | E | P | F | R | Ser | Pro | Ser | Trp | Glu | Pro | Phe | Arg |
|-----|---|---|----|---|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| c | S | P | S* | W | E | P | F | R | 105.066 | 202.119 | 369.117 | 555.196 | 684.239 | 781.292 | 928.360 | 1084.461 |
| c+1 | S | P | S* | W | E | P | F | R | 106.074 | 203.126 | 370.125 | 556.204 | 685.247 | 782.299 | 929.368 | 1085.469 |
| z | S | P | S* | W | E | P | F | R | 158.092 | 305.161 | 402.214 | 531.256 | 717.335 | 884.334 | 981.387 | 1068.419 |
| z+1 | S | P | S* | W | E | P | F | R | 159.100 | 306.169 | 403.221 | 532.264 | 718.343 | 885.342 | 982.394 | 1069.426 |
| z+2 | S | P | S* | W | E | P | F | R | 160.108 | 307.176 | 404.229 | 533.272 | 719.351 | 886.349 | 983.402 | 1070.434 |
| | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Phe | Pro | Glu | Trp | Ser | Pro | Ser |



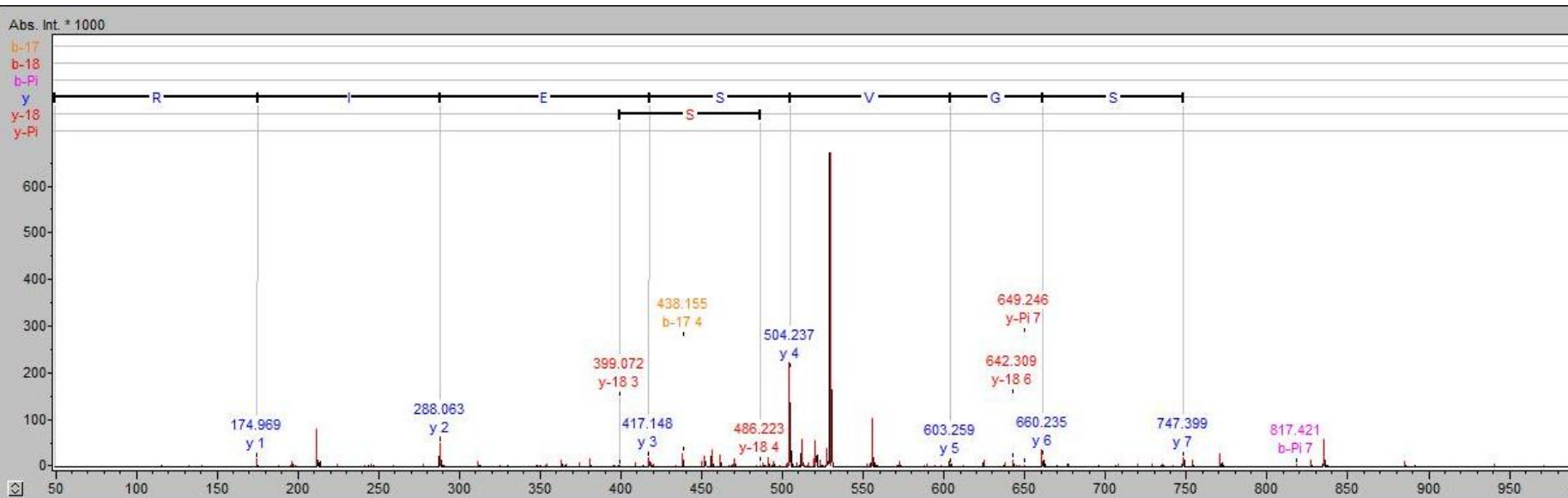
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SPSWEFPRDWYPAHSR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 2097.897 MH+(avg): 2099.142 MS/MS Tol: 0.500 Da Peaks: 84 Above Threshold: 84 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 21 Not Assigned: 63 1+, m/z: 0.000

| | S | P | S | W | E | P | F | R | D | W | Y | P | A | H | S | R | Ser | Pro | Ser | Trp | Glu | Pro | Phe | Arg | Asp | Trp | Tyr | Pro | Ala | H |
|------|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | S | P | S* | W | E | P | F | R | D | W | Y | P | A | H | S | R | 88.039 | 185.092 | 352.090 | 538.170 | 667.212 | 764.265 | 911.334 | 1067.435 | 1182.462 | 1368.541 | 1531.604 | 1628.657 | 1699.694 | 18 |
| b-17 | S | P | S* | W | E | P | F | R | D | W | Y | P | A | H | S | R | - | - | - | - | - | - | 1050.408 | 1165.435 | 1351.514 | 1514.578 | 1611.630 | 1682.668 | 18 | |
| b-18 | S | P | S* | W | E | P | F | R | D | W | Y | P | A | H | S | R | 70.029 | 167.082 | 334.080 | 520.159 | 649.202 | 746.255 | 893.323 | 1049.424 | 1164.451 | 1350.530 | 1513.594 | 1610.646 | 1681.684 | 18 |
| b-Pi | S | P | S* | W | E | P | F | R | D | W | Y | P | A | H | S | R | - | 106.990 | 273.989 | 460.068 | 589.111 | 686.163 | 833.232 | 989.333 | 1104.360 | 1290.439 | 1453.502 | 1550.555 | 1621.592 | 17 |
| y | S | P | S* | W | E | P | F | R | D | W | Y | P | A | H | S | R | 175.119 | 262.151 | 399.210 | 470.247 | 567.300 | 730.363 | 916.442 | 1031.469 | 1187.570 | 1334.639 | 1431.692 | 1560.734 | 1746.814 | 19 |
| y-17 | S | P | S* | W | E | P | F | R | D | W | Y | P | A | H | S | R | 158.092 | 245.124 | 382.183 | 453.220 | 550.273 | 713.337 | 899.416 | 1014.443 | 1170.544 | 1317.612 | 1414.665 | 1543.708 | 1729.787 | 18 |
| y-18 | S | P | S* | W | E | P | F | R | D | W | Y | P | A | H | S | R | - | 244.140 | 381.199 | 452.236 | 549.289 | 712.353 | 898.432 | 1013.459 | 1169.560 | 1316.628 | 1413.681 | 1542.724 | 1728.803 | 18 |
| y-Pi | S | P | S* | W | E | P | F | R | D | W | Y | P | A | H | S | R | - | 164.174 | 301.233 | 372.270 | 469.323 | 632.386 | 818.466 | 933.492 | 1089.594 | 1236.662 | 1333.715 | 1462.757 | 1648.837 | 18 |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | His | Ala | Pro | Tyr | Trp | Asp | Arg | Phe | Pro | Glu | Trp | S |



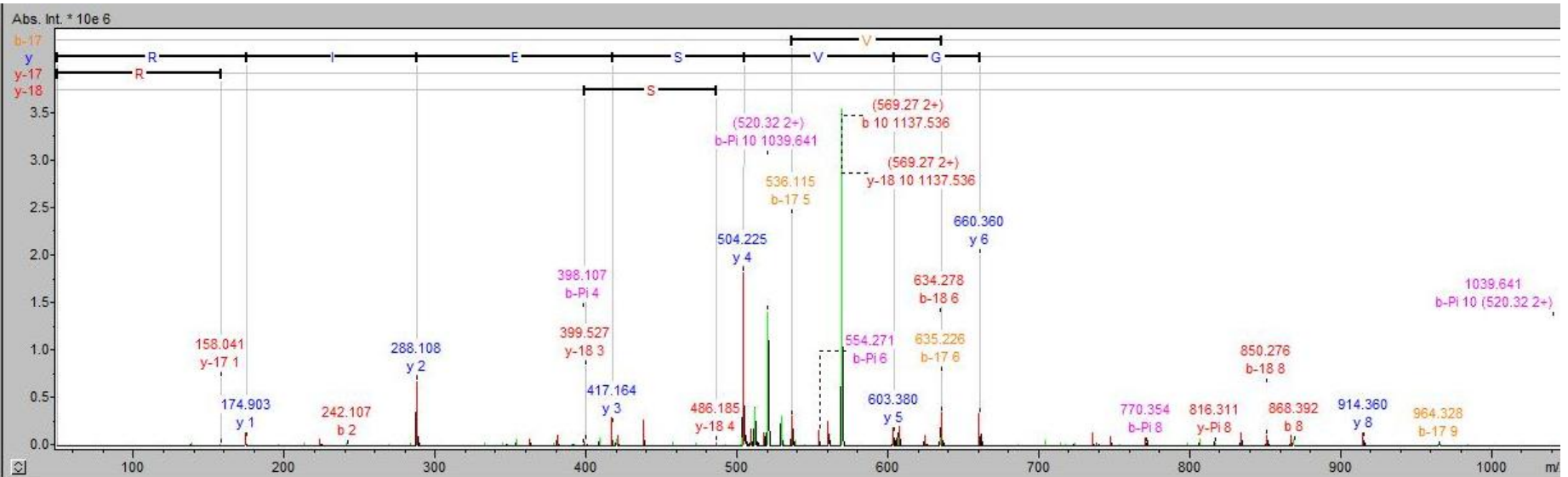
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: ALNRQLSSGVSEIR (Peptide Mods: 7: Phospho (ST))

MH+(mono): 1609.806 MH+(avg): 1610.688 MS/MS Tol: 0.500 Da Peaks: 93 Above Threshold: 93 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 31 Not Assigned: 62 1+, m/z: 990.440

| | A | L | N | R | Q | L | S | S | G | V | S | E | I | R | Ala | Leu | Asn | Arg | Gln | Leu | Ser | Ser | Gly | Val | Ser | Glu | Ile | Arg |
|------|----|----|----|----|----|---|----|---|---|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | A | L | N | R | Q | L | S* | S | G | V | S | E | I | R | 72.044 | 185.128 | 299.171 | 455.272 | 583.331 | 696.415 | 863.413 | 950.446 | 1007.467 | 1106.535 | 1193.567 | 1322.610 | 1435.694 | 1591.795 |
| b-17 | A | L | N | R | Q | L | S* | S | G | V | S | E | I | R | - | - | 282.145 | 438.246 | 566.305 | 679.389 | 846.387 | 933.419 | 990.440 | 1089.509 | 1176.541 | 1305.583 | 1418.668 | 1574.769 |
| b-18 | A | L | N | R | Q | L | S* | S | G | V | S | E | I | R | - | - | - | - | - | - | 845.403 | 932.435 | 989.456 | 1088.525 | 1175.557 | 1304.599 | 1417.684 | 1573.785 |
| b-Pi | A | L | N | R | Q | L | S* | S | G | V | S | E | I | R | 25.933 | - | - | - | - | - | 817.302 | 904.334 | 961.355 | 1060.424 | 1147.456 | 1276.498 | 1389.582 | 1545.683 |
| y | A | L | N | R | Q | L | S* | S | G | V | S | E | I | R | 175.119 | 288.203 | 417.246 | 504.278 | 603.346 | 660.368 | 747.400 | 914.398 | 1027.482 | 1155.541 | 1311.642 | 1425.685 | 1538.769 | 1609.806 |
| y-17 | A | L | N | R | Q | L | S* | S | G | V | S | E | I | R | 158.092 | 271.176 | 400.219 | 487.251 | 586.320 | 643.341 | 730.373 | 897.371 | 1010.455 | 1138.514 | 1294.615 | 1408.658 | 1521.742 | 1592.779 |
| y-18 | A | L | N | R | Q | L | S* | S | G | V | S | E | I | R | - | - | 399.235 | 486.267 | 585.335 | 642.357 | 729.389 | 896.387 | 1009.471 | 1137.530 | 1293.631 | 1407.674 | 1520.758 | 1591.795 |
| y-Pi | A | L | N | R | Q | L | S* | S | G | V | S | E | I | R | - | - | - | 406.301 | 505.369 | 562.391 | 649.423 | 816.421 | 929.505 | 1057.564 | 1213.665 | 1327.708 | 1440.792 | 1511.829 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ile | Glu | Ser | Val | Gly | Ser | Ser | Leu | Gln | Arg | Asn | Leu | Ala |

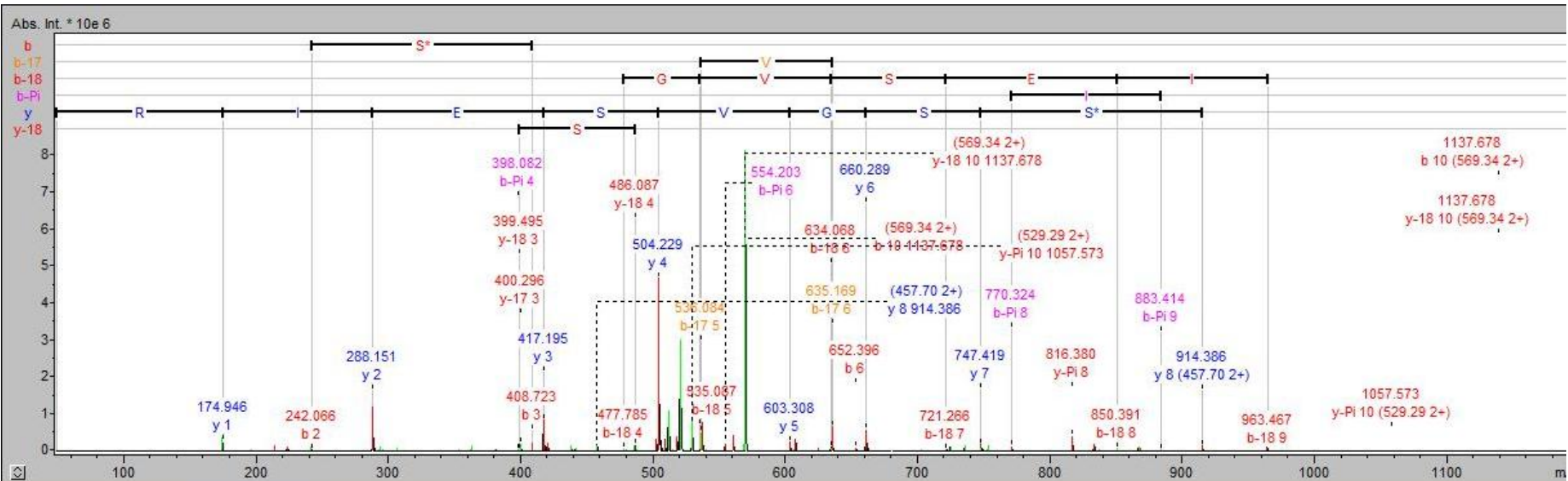


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: QLSSGVSEIR (Peptide Mods: 4: Phospho (ST))

MH+(mono): 1155.541 MH+(avg): 1156.163 MS/MS Tol: 0.500 Da Peaks: 80 Above Threshold: 80 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 24 Not Assigned: 56 1+, m/z: 0.000

| | Q | L | S | S | G | V | S | E | I | R | Gln | Leu | Ser | Ser | Gly | Val | Ser | Glu | Ile | Arg |
|------|----|---|---|----|---|---|---|---|---|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| b | Q | L | S | S* | G | V | S | E | I | R | 129.066 | 242.150 | 329.182 | 496.180 | 553.202 | 652.270 | 739.302 | 868.345 | 981.429 | 1137.530 |
| b-17 | Q | L | S | S* | G | V | S | E | I | R | 112.039 | 225.123 | 312.155 | 479.154 | 536.175 | 635.244 | 722.276 | 851.318 | 964.402 | 1120.503 |
| b-18 | Q | L | S | S* | G | V | S | E | I | R | - | - | 311.171 | 478.170 | 535.191 | 634.260 | 721.292 | 850.334 | 963.418 | 1119.519 |
| b-Pi | Q | L | S | S* | G | V | S | E | I | R | - | - | 231.205 | 398.203 | 455.225 | 554.293 | 641.325 | 770.368 | 883.452 | 1039.553 |
| y | Q | L | S | S* | G | V | S | E | I | R | 175.119 | 288.203 | 417.246 | 504.278 | 603.346 | 660.368 | 827.366 | 914.398 | 1027.482 | 1155.541 |
| y-17 | Q | L | S | S* | G | V | S | E | I | R | 158.092 | 271.176 | 400.219 | 487.251 | 586.320 | 643.341 | 810.339 | 897.371 | 1010.455 | 1138.514 |
| y-18 | Q | L | S | S* | G | V | S | E | I | R | - | - | 399.235 | 486.267 | 585.335 | 642.357 | 809.355 | 896.387 | 1009.471 | 1137.530 |
| y-Pi | Q | L | S | S* | G | V | S | E | I | R | - | - | - | 406.301 | 505.369 | 562.391 | 729.389 | 816.421 | 929.505 | 1057.564 |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ile | Glu | Ser | Val | Gly | Ser | Ser | Leu | Gln |



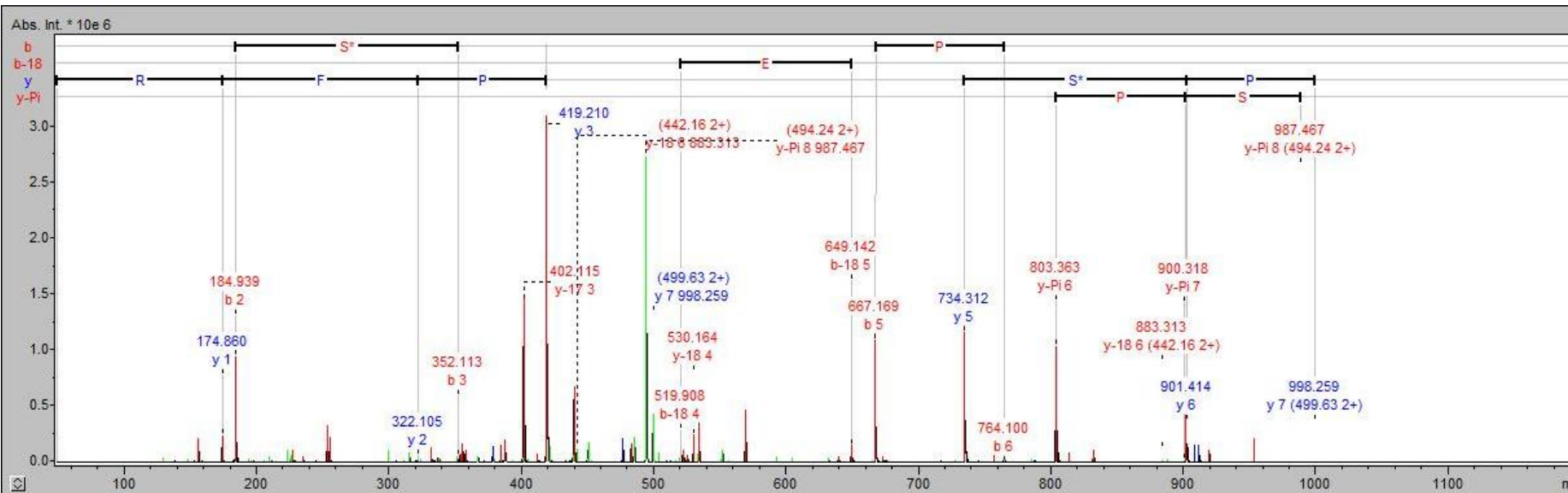
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: QLSSGVSEIR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 1155.541 MH+(avg): 1156.163 MS/MS Tol: 0.500 Da Peaks: 78 Above Threshold: 78 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 30 Not Assigned: 48 1+, m/z: 0.000

| | Q | L | S | S | G | V | S | E | I | R | Gln | Leu | Ser | Ser | Gly | Val | Ser | Glu | Ile | Arg |
|------|----|---|----|---|---|---|---|---|---|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| b | Q | L | S* | S | G | V | S | E | I | R | 129.066 | 242.150 | 409.148 | 496.180 | 553.202 | 652.270 | 739.302 | 868.345 | 981.429 | 1137.530 |
| b-17 | Q | L | S* | S | G | V | S | E | I | R | 112.039 | 225.123 | 392.122 | 479.154 | 536.175 | 635.244 | 722.276 | 851.318 | 964.402 | 1120.503 |
| b-18 | Q | L | S* | S | G | V | S | E | I | R | - | - | 391.138 | 478.170 | 535.191 | 634.260 | 721.292 | 850.334 | 963.418 | 1119.519 |
| b-Pi | Q | L | S* | S | G | V | S | E | I | R | - | - | 311.171 | 398.203 | 455.225 | 554.293 | 641.325 | 770.368 | 883.452 | 1039.553 |
| y | Q | L | S* | S | G | V | S | E | I | R | 175.119 | 288.203 | 417.246 | 504.278 | 603.346 | 660.368 | 747.400 | 914.398 | 1027.482 | 1155.541 |
| y-17 | Q | L | S* | S | G | V | S | E | I | R | 158.092 | 271.176 | 400.219 | 487.251 | 586.320 | 643.341 | 730.373 | 897.371 | 1010.455 | 1138.514 |
| y-18 | Q | L | S* | S | G | V | S | E | I | R | - | - | 399.235 | 486.267 | 585.335 | 642.357 | 729.389 | 896.387 | 1009.471 | 1137.530 |
| y-Pi | Q | L | S* | S | G | V | S | E | I | R | - | - | - | 406.301 | 505.369 | 562.391 | 649.423 | 816.421 | 929.505 | 1057.564 |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ile | Glu | Ser | Val | Gly | Ser | Ser | Leu | Gln |



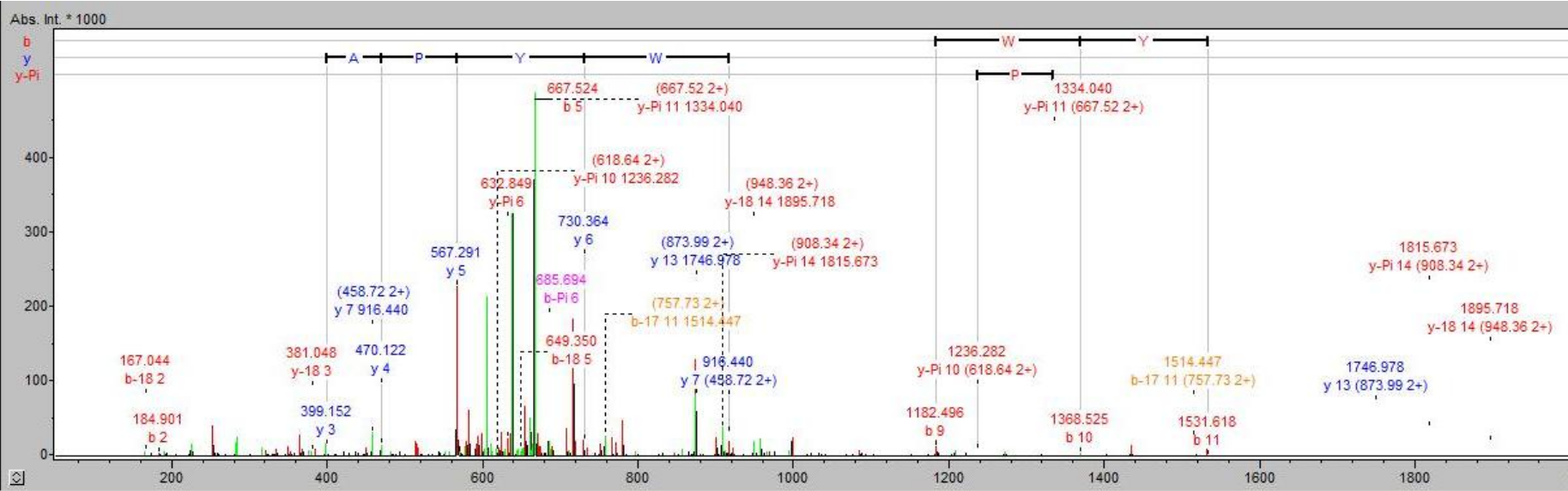
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SPSWEPFR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 1085.445 MH+(avg): 1086.073 MS/MS Tol: 0.500 Da Peaks: 88 Above Threshold: 88 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 18 Not Assigned: 70 1+, m/z: 0.000

| | S | P | S | W | E | P | F | R | Ser | Pro | Ser | Trp | Glu | Pro | Phe | Arg |
|------|---|---|----|---|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| b | S | P | S* | W | E | P | F | R | 88.039 | 185.092 | 352.090 | 538.170 | 667.212 | 764.265 | 911.334 | 1067.435 |
| b-17 | S | P | S* | W | E | P | F | R | - | - | - | - | - | - | - | 1050.408 |
| b-18 | S | P | S* | W | E | P | F | R | 70.029 | 167.082 | 334.080 | 520.159 | 649.202 | 746.255 | 893.323 | 1049.424 |
| b-Pi | S | P | S* | W | E | P | F | R | - | 106.990 | 273.989 | 460.068 | 589.111 | 686.163 | 833.232 | 989.333 |
| y | S | P | S* | W | E | P | F | R | 175.119 | 322.187 | 419.240 | 548.283 | 734.362 | 901.360 | 998.413 | 1085.445 |
| y-17 | S | P | S* | W | E | P | F | R | 158.092 | 305.161 | 402.214 | 531.256 | 717.335 | 884.334 | 981.387 | 1068.419 |
| y-18 | S | P | S* | W | E | P | F | R | - | - | - | 530.272 | 716.351 | 883.350 | 980.403 | 1067.435 |
| y-Pi | S | P | S* | W | E | P | F | R | - | - | - | - | - | 803.383 | 900.436 | 987.468 |
| | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Phe | Pro | Glu | Trp | Ser | Pro | Ser |



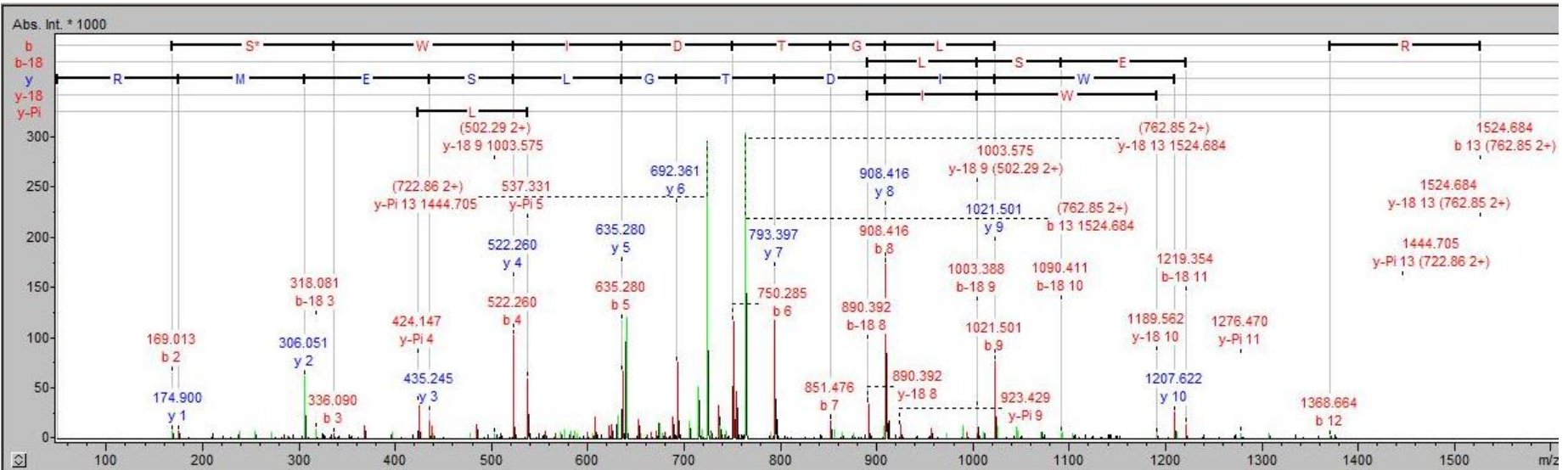
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: SPSWEPFRDWPYPAHSR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 2097.897 | MH+(avg): 2099.142 | MS/MS Tol: 0.500 Da | Peaks: 98 | Above Threshold: 98 | Zoom to m/z for 2+ | Zoom +/-: 5 Da

Masses: Monoisotopic Average | Calculate: Masses | Threshold: 0.000 | Assigned: 21 | Not Assigned: 77 | 1+, m/z: 0.000

| | S | P | S | W | E | P | F | R | D | W | Y | P | A | H | S | R | Ser | Pro | Ser | Trp | Glu | Pro | Phe | Arg | Asp | Trp | Tyr | Pro | Ala | H | |
|------|----|----|----------------|----|----|----|----|---|---|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| b | S | P | S ⁺ | W | E | P | F | R | D | W | Y | P | A | H | S | R | 88.039 | 185.092 | 352.090 | 538.170 | 667.212 | 764.265 | 911.334 | 1067.435 | 1182.462 | 1368.541 | 1531.604 | 1628.657 | 1699.694 | 18 | |
| b-17 | S | P | S ⁺ | W | E | P | F | R | D | W | Y | P | A | H | S | R | - | - | - | - | - | - | - | - | 1050.408 | 1165.435 | 1351.514 | 1514.578 | 1611.630 | 1682.668 | 18 |
| b-18 | S | P | S ⁺ | W | E | P | F | R | D | W | Y | P | A | H | S | R | 70.029 | 167.082 | 334.080 | 520.159 | 649.202 | 746.255 | 893.323 | 1049.424 | 1164.451 | 1350.530 | 1513.594 | 1610.646 | 1681.684 | 18 | |
| b-Pi | S | P | S ⁺ | W | E | P | F | R | D | W | Y | P | A | H | S | R | - | 106.990 | 273.989 | 460.068 | 589.111 | 686.163 | 833.232 | 989.333 | 1104.360 | 1290.439 | 1453.502 | 1550.555 | 1621.592 | 17 | |
| y | S | P | S ⁺ | W | E | P | F | R | D | W | Y | P | A | H | S | R | 175.119 | 262.151 | 399.210 | 470.247 | 567.300 | 730.363 | 916.442 | 1031.469 | 1187.570 | 1334.639 | 1431.692 | 1560.734 | 1746.814 | 19 | |
| y-17 | S | P | S ⁺ | W | E | P | F | R | D | W | Y | P | A | H | S | R | 158.092 | 245.124 | 382.183 | 453.220 | 550.273 | 713.337 | 899.416 | 1014.443 | 1170.544 | 1317.612 | 1414.665 | 1543.708 | 1729.787 | 18 | |
| y-18 | S | P | S ⁺ | W | E | P | F | R | D | W | Y | P | A | H | S | R | - | 244.140 | 381.199 | 452.236 | 549.289 | 712.353 | 898.432 | 1013.459 | 1169.560 | 1316.628 | 1413.681 | 1542.724 | 1728.803 | 18 | |
| y-Pi | S | P | S ⁺ | W | E | P | F | R | D | W | Y | P | A | H | S | R | - | 164.174 | 301.233 | 372.270 | 469.323 | 632.386 | 818.466 | 933.492 | 1089.594 | 1236.662 | 1333.715 | 1462.757 | 1648.837 | 18 | |
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Ser | His | Ala | Pro | Tyr | Trp | Asp | Arg | Phe | Pro | Glu | Trp | S | |



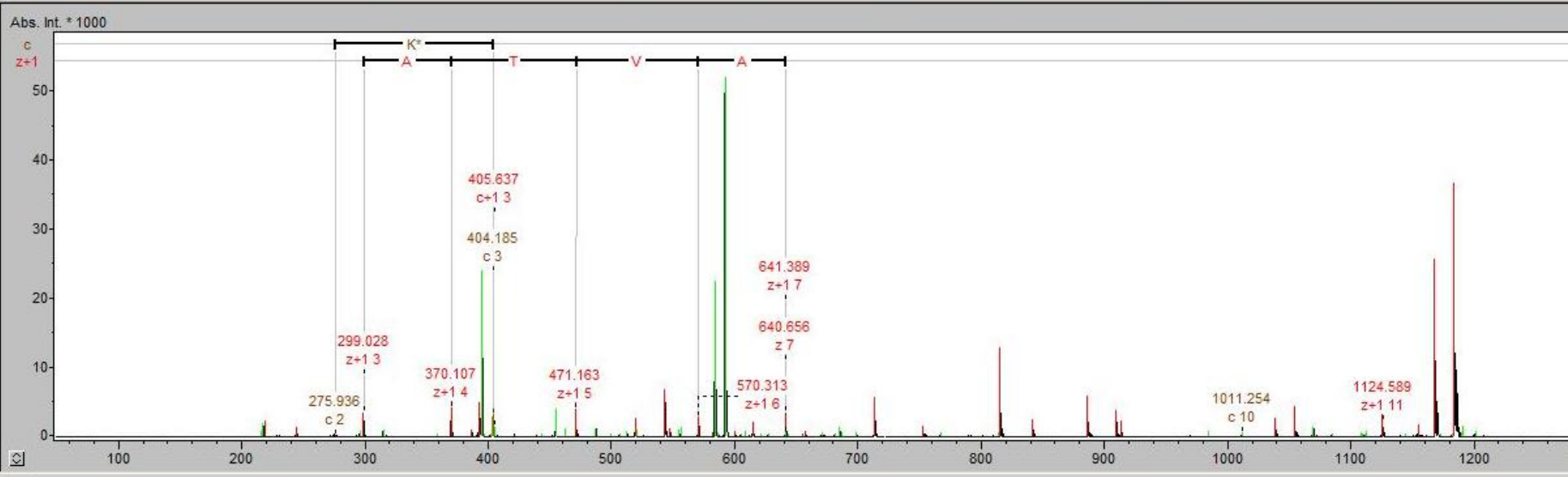
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: APSWIDTGLSEMR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 1542.666 MH+(avg): 1543.618 MS/MS Tol: 0.500 Da Peaks: 90 Above Threshold: 90 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 34 Not Assigned: 56 1+, m/z: 0.000

| | A | P | S | W | I | D | T | G | L | S | E | M | R | Ala | Pro | Ser | Trp | Ile | Asp | Thr | Gly | Leu | Ser | Glu | Met | Arg | |
|------|----|----|----|----|---|---|---|---|---|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| b | A | P | S* | W | I | D | T | G | L | S | E | M | R | - | 72.044 | 169.097 | 336.096 | 522.175 | 635.259 | 750.286 | 851.334 | 908.355 | 1021.439 | 1108.471 | 1237.514 | 1368.554 | 1524.655 |
| b-17 | A | P | S* | W | I | D | T | G | L | S | E | M | R | - | - | - | - | - | - | - | - | - | - | - | - | - | 1507.629 |
| b-18 | A | P | S* | W | I | D | T | G | L | S | E | M | R | - | - | 318.085 | 504.164 | 617.248 | 732.275 | 833.323 | 890.344 | 1003.428 | 1090.461 | 1219.503 | 1350.544 | 1506.645 | |
| b-PI | A | P | S* | W | I | D | T | G | L | S | E | M | R | 25.933 | - | 289.984 | 476.063 | 589.147 | 704.174 | 805.222 | 862.243 | 975.327 | 1062.359 | 1191.402 | 1322.442 | 1478.543 | |
| y | A | P | S* | W | I | D | T | G | L | S | E | M | R | 175.119 | 306.159 | 435.202 | 522.234 | 635.318 | 692.340 | 793.387 | 908.414 | 1021.498 | 1207.578 | 1374.576 | 1471.629 | 1542.666 | |
| y-17 | A | P | S* | W | I | D | T | G | L | S | E | M | R | 158.092 | 289.133 | 418.175 | 505.208 | 618.292 | 675.313 | 776.361 | 891.388 | 1004.472 | 1190.551 | 1357.549 | 1454.602 | 1525.639 | |
| y-18 | A | P | S* | W | I | D | T | G | L | S | E | M | R | - | - | 417.191 | 504.223 | 617.308 | 674.329 | 775.377 | 890.404 | 1003.488 | 1189.567 | 1356.565 | 1453.618 | 1524.655 | |
| y-PI | A | P | S* | W | I | D | T | G | L | S | E | M | R | - | - | - | 424.257 | 537.341 | 594.363 | 695.410 | 810.437 | 923.521 | 1109.601 | 1276.599 | 1373.652 | 1444.689 | |
| | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Met | Glu | Ser | Leu | Gly | Thr | Asp | Ile | Trp | Ser | Pro | Ala | |

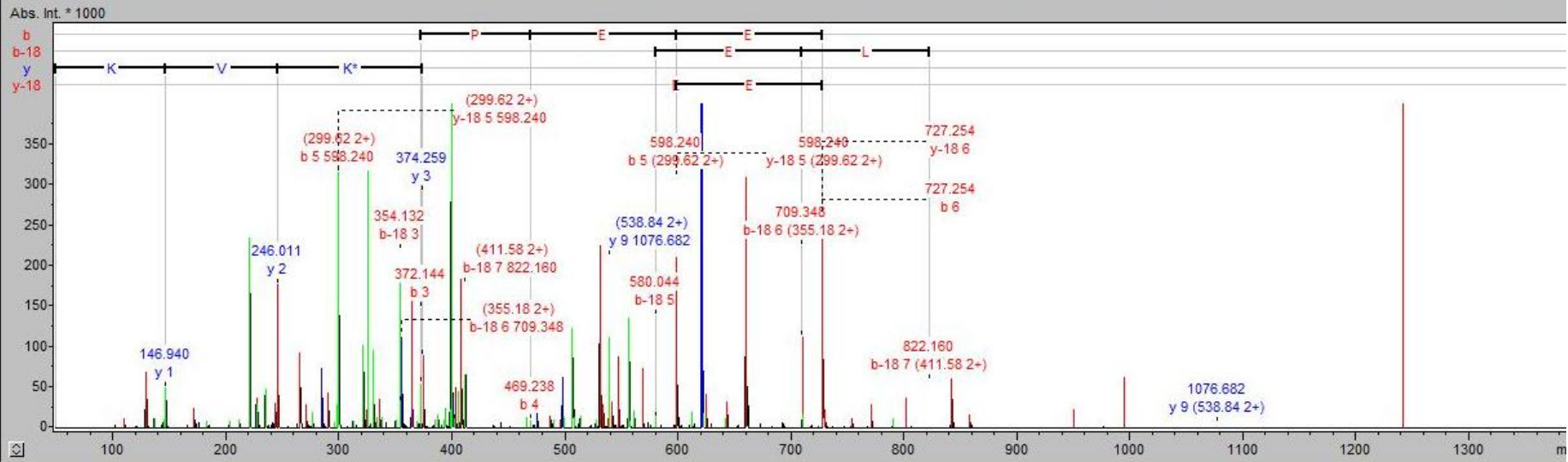


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: EEKPAVTAAPK (Peptide Mods: 3: Acetyl (K))

MH+(mono): 1140.626 MH+(avg): 1141.297 MS/MS To: 0.500 Da Peaks: 82 Above Threshold: 82 Zoom to m/z for 2+: Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 11 Not Assigned: 71 1+, m/z: 0.000

| | E | E | K | P | A | V | T | A | A | P | K | Glu | Glu | Lys | Pro | Ala | Val | Thr | Ala | Ala | Pro | Lys |
|-----|----|----|----|---|---|---|---|---|---|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| c | E | E | K* | P | A | V | T | A | A | P | K | 147.076 | 276.119 | 404.214 | 501.267 | 572.304 | 671.372 | 772.420 | 843.457 | 914.494 | 1011.547 | 1139.642 |
| c+1 | E | E | K* | P | A | V | T | A | A | P | K | 148.084 | 277.127 | 405.222 | 502.275 | 573.312 | 672.380 | 773.428 | 844.465 | 915.502 | 1012.555 | 1140.650 |
| z | E | E | K* | P | A | V | T | A | A | P | K | 130.086 | 227.139 | 298.176 | 369.213 | 470.261 | 569.329 | 640.368 | 737.419 | 865.514 | 994.557 | 1123.599 |
| z+1 | E | E | K* | P | A | V | T | A | A | P | K | 131.094 | 228.147 | 299.184 | 370.221 | 471.269 | 570.337 | 641.374 | 738.427 | 866.522 | 995.565 | 1124.607 |
| z+2 | E | E | K* | P | A | V | T | A | A | P | K | 132.102 | 229.155 | 300.192 | 371.229 | 472.277 | 571.345 | 642.382 | 739.435 | 867.530 | 996.572 | 1125.615 |
| | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Pro | Ala | Ala | Thr | Val | Ala | Pro | Lys | Glu | Glu |



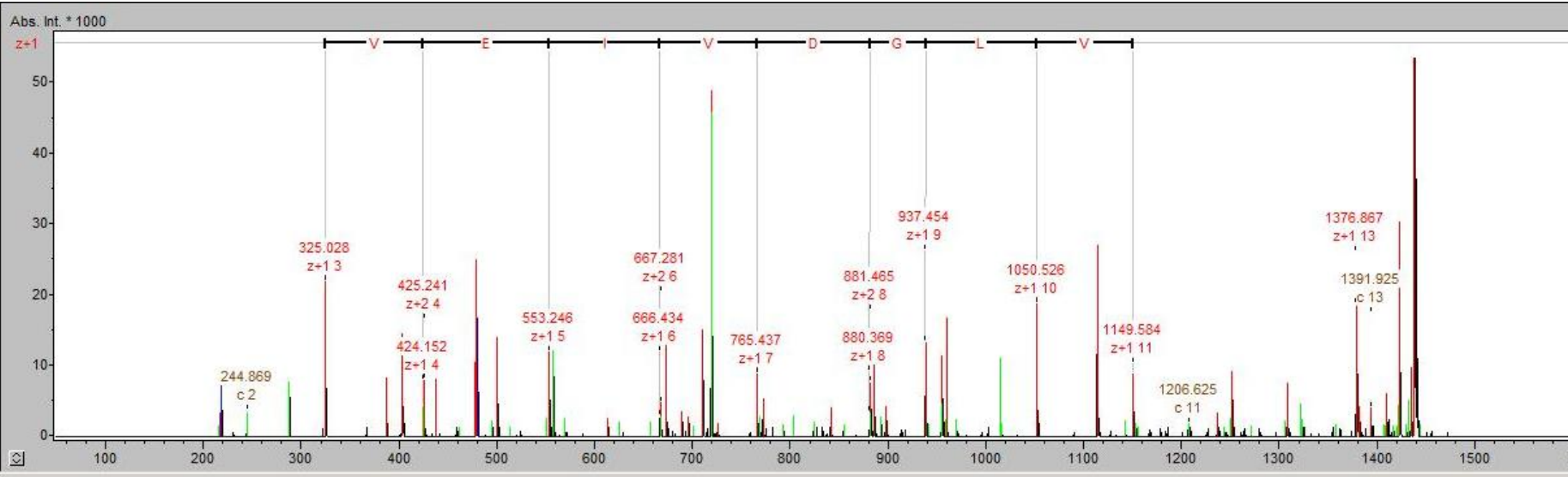
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: HFSPEELKVK (Peptide Mods: 8: Acetyl (K))

MH+(mono): 1213.658 MH+(avg): 1214.392 MS/MS Tol: 0.500 Da Peaks: 88 Above Threshold: 88 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 14 Not Assigned: 74 1+, m/z: 0.000

| | H | F | S | P | E | E | L | K | V | K | His | Phe | Ser | Pro | Glu | Glu | Leu | Lys | Val | Lys |
|------|----|---|---|---|---|---|---|----|---|----|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| b | H | F | S | P | E | E | L | K* | V | K | 138.066 | 285.135 | 372.167 | 469.219 | 598.262 | 727.305 | 840.389 | 968.484 | 1067.552 | 1195.647 |
| b-17 | H | F | S | P | E | E | L | K* | V | K | - | - | - | - | - | - | - | 951.457 | 1050.525 | 1178.620 |
| b-18 | H | F | S | P | E | E | L | K* | V | K | - | - | 354.156 | 451.209 | 580.251 | 709.294 | 822.378 | 950.473 | 1049.541 | 1177.636 |
| y | H | F | S | P | E | E | L | K* | V | K | 147.113 | 246.181 | 374.276 | 487.360 | 616.403 | 745.445 | 842.498 | 929.530 | 1076.599 | 1213.658 |
| y-17 | H | F | S | P | E | E | L | K* | V | K | 130.086 | 229.155 | 357.250 | 470.334 | 599.376 | 728.419 | 825.472 | 912.504 | 1059.572 | 1196.631 |
| y-18 | H | F | S | P | E | E | L | K* | V | K | - | - | - | - | 598.392 | 727.435 | 824.488 | 911.520 | 1058.588 | 1195.647 |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Val | Lys | Leu | Glu | Glu | Pro | Ser | Phe | His |



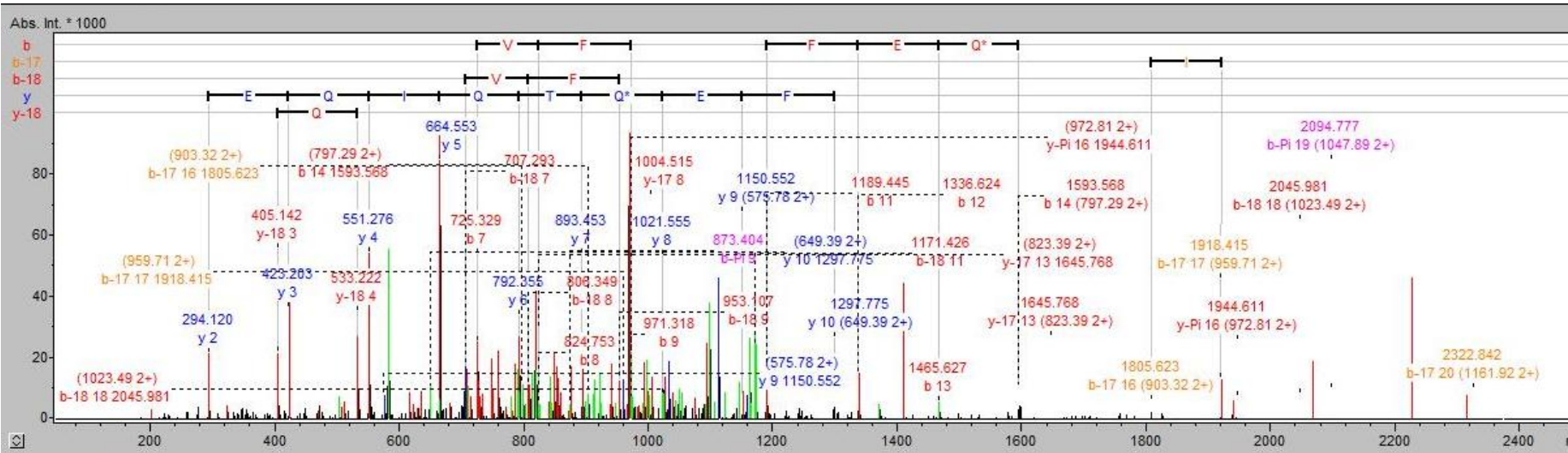
Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: VKVLGDVIEVHGK (Peptide Mods: 2: Acetyl (K))

MH+(mono): 1392.821 MH+(avg): 1393.653 MS/MS Toj: 0.500 Da Peaks: 91 Above Threshold: 91 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 16 Not Assigned: 75 1+, m/z: 326.182

| | V | K | V | L | G | D | V | I | E | V | H | G | K | Val | Lys | Val | Leu | Gly | Asp | Val | Ile | Glu | Val | His | Gly | Lys |
|-----|----|----|----|----|---|---|---|---|---|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| c | V | K* | V | L | G | D | V | I | E | V | H | G | K | 117.102 | 245.197 | 344.266 | 457.350 | 514.371 | 629.398 | 728.466 | 841.551 | 970.593 | 1069.662 | 1206.720 | 1263.742 | 1391.837 |
| c+1 | V | K* | V | L | G | D | V | I | E | V | H | G | K | 118.110 | 246.205 | 345.273 | 458.358 | 515.379 | 630.406 | 729.474 | 842.558 | 971.601 | 1070.669 | 1207.728 | 1264.750 | 1392.845 |
| z | V | K* | V | L | G | D | V | I | E | V | H | G | K | 130.086 | 187.108 | 324.167 | 423.235 | 552.278 | 665.362 | 764.430 | 879.457 | 936.479 | 1049.563 | 1148.631 | 1276.726 | 1375.794 |
| z+1 | V | K* | V | L | G | D | V | I | E | V | H | G | K | 131.094 | 188.116 | 325.174 | 424.243 | 553.285 | 666.370 | 765.438 | 880.465 | 937.486 | 1050.570 | 1149.639 | 1277.734 | 1376.802 |
| z+2 | V | K* | V | L | G | D | V | I | E | V | H | G | K | 132.102 | 189.123 | 326.182 | 425.251 | 554.293 | 667.377 | 766.446 | 881.473 | 938.494 | 1051.578 | 1150.647 | 1278.742 | 1377.810 |
| | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Gly | His | Val | Glu | Ile | Val | Asp | Gly | Leu | Val | Lys | Val |

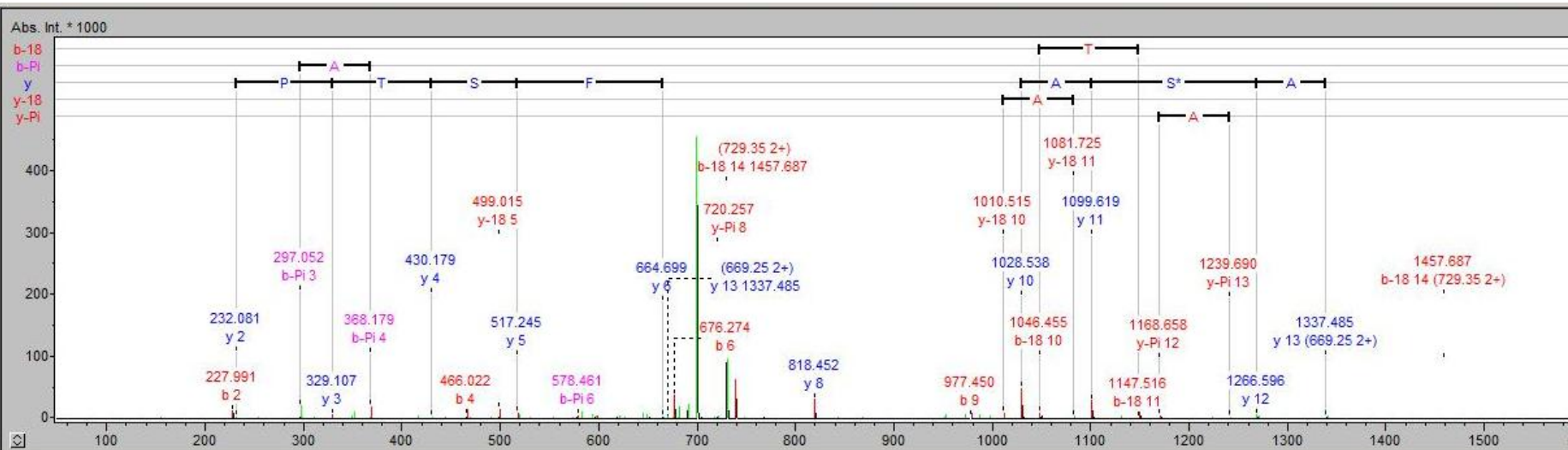


Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: LEGGSSNVFSMFETQIQEFK (Peptide Mods: 14: Deamidated (NQ) 6: Phospho (ST))

MH+(mono): 2486.095 MH+(avg): 2487.616 MS/MS Tol: 0.500 Da Peaks: 115 Above Threshold: 115 Zoom to m/z for 2+ Zoom +/-: 5 Da
 Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 31 Not Assigned: 84 1+, m/z: 0.000

| | L | E | G | G | S | S | N | V | F | S | M | F | E | Q | T | Q | I | Q | E | F | K | Leu | Glu | Gly | Gly | Ser | Ser | Asn | Val | Phe | Ser | Met | Phe |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| b | L | E | G | G | S | S* | N | V | F | S | M | F | E | Q* | T | Q | I | Q | E | F | K | 114.091 | 243.134 | 300.155 | 357.177 | 444.209 | 611.207 | 725.250 | 824.319 | 971.387 | 1058.419 | 1189.460 | 1336.528 |
| b-17 | L | E | G | G | S | S* | N | V | F | S | M | F | E | Q* | T | Q | I | Q | E | F | K | - | - | - | - | - | - | 708.224 | 807.292 | 954.360 | 1041.392 | 1172.433 | 1319.501 |
| b-18 | L | E | G | G | S | S* | N | V | F | S | M | F | E | Q* | T | Q | I | Q | E | F | K | - | 225.123 | 282.145 | 339.166 | 426.198 | 593.197 | 707.240 | 806.308 | 953.376 | 1040.408 | 1171.449 | 1318.517 |
| b-Pi | L | E | G | G | S | S* | N | V | F | S | M | F | E | Q* | T | Q | I | Q | E | F | K | - | - | - | - | 346.232 | 513.230 | 627.273 | 726.342 | 873.410 | 960.442 | 1091.483 | 1238.551 |
| y | L | E | G | G | S | S* | N | V | F | S | M | F | E | Q* | T | Q | I | Q | E | F | K | 147.113 | 294.181 | 423.224 | 551.282 | 664.366 | 792.425 | 893.473 | 1021.531 | 1150.574 | 1297.642 | 1428.683 | 1515.715 |
| y-17 | L | E | G | G | S | S* | N | V | F | S | M | F | E | Q* | T | Q | I | Q | E | F | K | 130.086 | 277.155 | 406.197 | 534.256 | 647.340 | 775.398 | 876.446 | 1004.505 | 1133.547 | 1280.616 | 1411.656 | 1498.688 |
| y-18 | L | E | G | G | S | S* | N | V | F | S | M | F | E | Q* | T | Q | I | Q | E | F | K | - | - | 405.213 | 533.272 | 646.356 | 774.414 | 875.462 | 1003.521 | 1132.563 | 1279.632 | 1410.672 | 1497.704 |
| y-Pi | L | E | G | G | S | S* | N | V | F | S | M | F | E | Q* | T | Q | I | Q | E | F | K | - | - | - | - | - | - | 795.496 | 923.554 | 1052.597 | 1199.665 | 1330.706 | 1417.738 |
| | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Lys | Phe | Glu | Gln | Ile | Gln | Thr | Gln | Glu | Phe | Met | Ser |



Protein View | Match Errors | MS/MS Fragments | MSMS Analysis

Sequence: RA^SAPLPGFSTPGR (Peptide Mods: 3: Phospho (ST))

MH+(mono): 1493.726 MH+(avg): 1494.571 MS/MS Tol: 0.500 Da Peaks: 68 Above Threshold: 68 Zoom to m/z for 2+ Zoom +/-: 5 Da

Masses: Monoisotopic Average Calculate: Masses Threshold: 0.000 Assigned: 26 Not Assigned: 42 1+, m/z: 0.000

| | R | A | S | A | P | L | P | G | F | S | T | P | G | R | Arg | Ala | Ser | Ala | Pro | Leu | Pro | Gly | Phe | Ser | Thr | Pro | Gly | Arg |
|------|----|----|----|----|----|---|---|---|---|----|----|----|----|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| Ion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| b | R | A | S* | A | P | L | P | G | F | S | T | P | G | R | 157.108 | 228.145 | 395.144 | 466.181 | 563.234 | 676.318 | 773.371 | 830.392 | 977.460 | 1064.492 | 1165.540 | 1262.593 | 1319.614 | 1475.715 |
| b-17 | R | A | S* | A | P | L | P | G | F | S | T | P | G | R | 140.082 | 211.119 | 378.117 | 449.154 | 546.207 | 659.291 | 756.344 | 813.365 | 960.434 | 1047.466 | 1148.514 | 1245.566 | 1302.588 | 1458.689 |
| b-18 | R | A | S* | A | P | L | P | G | F | S | T | P | G | R | - | - | 377.133 | 448.170 | 545.223 | 658.307 | 755.360 | 812.381 | 959.450 | 1046.482 | 1147.530 | 1244.582 | 1301.604 | 1457.705 |
| b-Pi | R | A | S* | A | P | L | P | G | F | S | T | P | G | R | - | - | 297.167 | 368.204 | 465.257 | 578.341 | 675.394 | 732.415 | 879.484 | 966.516 | 1067.563 | 1164.616 | 1221.637 | 1377.739 |
| y | R | A | S* | A | P | L | P | G | F | S | T | P | G | R | 175.119 | 232.140 | 329.193 | 430.241 | 517.273 | 684.341 | 721.363 | 818.416 | 931.500 | 1028.552 | 1099.589 | 1266.588 | 1337.625 | 1493.726 |
| y-17 | R | A | S* | A | P | L | P | G | F | S | T | P | G | R | 158.092 | 215.114 | 312.167 | 413.214 | 500.246 | 647.315 | 704.336 | 801.389 | 914.473 | 1011.526 | 1082.563 | 1249.561 | 1320.598 | 1476.700 |
| y-18 | R | A | S* | A | P | L | P | G | F | S | T | P | G | R | - | - | - | 412.230 | 499.262 | 646.331 | 703.352 | 800.405 | 913.489 | 1010.542 | 1081.579 | 1248.577 | 1319.614 | 1475.715 |
| y-Pi | R | A | S* | A | P | L | P | G | F | S | T | P | G | R | - | - | - | 332.264 | 419.296 | 566.364 | 623.386 | 720.439 | 833.523 | 930.575 | 1001.613 | 1168.611 | 1239.648 | 1395.749 |
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Arg | Gly | Pro | Thr | Ser | Phe | Gly | Pro | Leu | Pro | Ala | Ser | Ala | Arg |