

TABLE: TYROSINE PHOSPHOSCAN® FINAL RESULTS, SILAC

STUDY DESIGN: Human non-small cell lung cancer (H3255) cell line; Trypsin Digest; Antibody: pY; CST #9411

Treatments: Untreated (Heavy), Iressa-treated (Light)

| Index | Fold-Change (Iressa / Untreated) | Protein Name | Phosphorylation Site | Description | Peptide | Accession | kD | Count in Study |
|-----------|----------------------------------|----------------------------------|----------------------|---|-------------------------------|-----------|-----|----------------|
| 1 | | Actin binding proteins | | | | | | |
| 2 | -1.6 | CTNNA1 | 177 | Catenin alpha-1 (Cadherin-associated protein) | NAGNEQDLGIQyK | P35221 | 100 | 4 |
| 3 | -14.5 | CTNND1 | 248 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | YRPSMEGyR | O60716 | 108 | 2 |
| 4 | -3.9 | CTNND1 | 865 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | SQSSHSyDDSTLPLIDR | O60716 | 108 | 1 |
| 5 | -5.5 | CTNND1 | 904 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | SLDNNySTPNERGDHNR | O60716 | 108 | 1 |
| 6 | -3 | CTNND1 | 904 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | SLDNNySTPNER | O60716 | 108 | 4 |
| 7 | -1.8 | CTNND1 | §228 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | HYEDGYPGGSDNyGsLSR | O60716 | 108 | 4 |
| 8 | -1.8 | CTNND1 | §228 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | HYEDGYPGGSDNyGSLSR | O60716 | 108 | 6 |
| 9 | -1.1 | CTNND1 | §257 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | QDVyGPQPQVR | O60716 | 108 | 1 |
| 10 | -6.1 | CTNND1 | §280 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | FHPEPyGLEDDQR | O60716 | 108 | 3 |
| 11 | -3 | CTNND1 | §96 | Catenin delta-1 (Cadherin-associated Src substrate) (p120(cas)) | LNGPQDHSLLySTIPR | O60716 | 108 | 1 |
| 12 | -11.1 | DBNL | §162 | Drebrin-like protein (SH3 domain-containing protein 7) (HIP-55) | FQDVGPQAPVGSyVqK | Q9UJU6 | 48 | 2 |
| 13 | | Adaptor/scaffold proteins | | | | | | |
| 14 | -0.7 | ANK3 | 533 | Ankyrin-3 (ANK-3) (Ankyrin-G) | ADIVQLLQQGASPNAAATSGyTPLHLSAR | Q12955 | 480 | 3 |
| 15 | -1.2 | NEDD9 | §166 | Enhancer of filamentation 1 (CRK-associated substrate-related protein)(CasL) | TGHGyYyEYPSR | Q14511 | 93 | 4 |
| 16 | -9.9 | CRK | 136 | Proto-oncogene C-crk (p38) (Adapter molecule crk) | QGGSVILRQEAEyVR | P46108 | 34 | 1 |
| 17 | >-8.4 | CRK | 136 | Proto-oncogene C-crk (p38) (Adapter molecule crk) | QEEAEyVR | P46108 | 34 | 1 |
| 18 | >-58.4 | DLG3 | 673 | Disks large homolog 3 (Synapse-associated protein 102) (SAP102) | RDNEVDGQDyHFVWSR | Q92796 | 90 | 7 |
| 19 | -25.5 | DLG3 | 673 | Disks large homolog 3 (Synapse-associated protein 102) (SAP102) | DNEVDGQDyHFVWSR | Q92796 | 90 | 3 |
| 20 | -19.9 | EPS8 | §485 | Epidermal growth factor receptor kinase substrate 8 | LSTEHSVSEyHPADGyYAFSSNIYTR | Q12929 | 92 | 2 |
| 21 | -1.3 | FLOT1 | 203 | Flotillin-1 | VSAQyLSEIEMAK | O75955 | 47 | 3 |
| 22 | -13.9 | GAB1 | §406 | GRB2-associated-binding protein 1 (GRB2-associated binder 1) | DASSQDyDIPR | Q13480 | 77 | 2 |
| 23 | >-11.0 | GAB1 | §627 | GRB2-associated-binding protein 1 (GRB2-associated binder 1) | GDKQVeyLDLDDLSGK | Q13480 | 77 | 4 |
| 24 | >-22.0 | GAB1 | §659 | GRB2-associated-binding protein 1 (GRB2-associated binder 1) | SSGSGSSVADERVdyVVDQqK | Q13480 | 77 | 3 |
| 25 | -8.7 | ITSN2 | §552 | Intersectin-2 (SH3 domain-containing protein 1B) (SH3P18) | LlyLVPEK | Q9NZM3 | 193 | 2 |
| 26 | -1 | WASL | §256 | Neural Wiskott-Aldrich syndrome protein (N-WASP) | VlyDFIEK | O00401 | 55 | 2 |
| 27 | -1.6 | PAG1 | §227 | Phosphoprotein associated with glycosphingolipid-enriched microdomains 1 | AEFAEyASVDR | Q9NWQ8 | 47 | 4 |
| 28 | -3.2 | PAG1 | §341 | Phosphoprotein associated with glycosphingolipid-enriched microdomains 2 | SGQSLTVPESTyTSIQGDPQR | Q9NWQ8 | 47 | 1 |
| 29 | -2.6 | PAG1 | §359 | Phosphoprotein associated with glycosphingolipid-enriched microdomains 3 | SPSSCNDLyATVK | Q9NWQ8 | 47 | 4 |
| 30 | >-10.4 | PAG1 | §417 | Phosphoprotein associated with glycosphingolipid-enriched microdomains 4 | ATLGTNGHHGLVPKENDyESISDLQQGR | Q9NWQ8 | 47 | 4 |
| 31 | -3.2 | PAG1 | §417 | Phosphoprotein associated with glycosphingolipid-enriched microdomains 5 | ENDyESISDLQQGR | Q9NWQ8 | 47 | 4 |
| 32 | -1.7 | PARD3 | 388 | Partitioning-defective 3 homolog (Atypical PKC isotype-specific-interacting prot) | FSPDSQyIDNR | Q8TEW0 | 151 | 2 |
| 33 | -1.3 | PARD3 | 489 | Partitioning-defective 3 homolog (Atypical PKC isotype-specific-interacting prot) | DVTIGGSAPyVVK | Q8TEW0 | 151 | 4 |
| 34 | -1.4 | PARD3 | 719 | Partitioning-defective 3 homolog (Atypical PKC isotype-specific-interacting prot) | RISHSLySGIEGLDESPSR | Q8TEW0 | 151 | 1 |
| 35 | -0.9 | PARD3 | 719 | Partitioning-defective 3 homolog (Atypical PKC isotype-specific-interacting prot) | ISHSLySGIEGLDESPSR | Q8TEW0 | 151 | 5 |
| 36 | -0.3 | PARD3 | 719 | Partitioning-defective 3 homolog (Atypical PKC isotype-specific-interacting prot) | RISHSLySGIEGLDESPSR | Q8TEW0 | 151 | 2 |
| 37 | -0.8 | PARD3 | §1127 | Partitioning-defective 3 homolog (Atypical PKC isotype-specific-interacting prot) | EGHMMDALyAQVK | Q8TEW0 | 151 | 1 |
| 38 | -2.1 | MPZL1 | §263 | Myelin protein zero-like protein 1 | SESVyADIR | O95297 | 29 | 3 |
| 39 | -1.5 | DLG1 | 760 | Disks large homolog 1 (Synapse-associated protein 97) (SAP-97) (hDlg) | DyHFVTSR | Q12959 | 100 | 1 |
| 40 | -1.2 | DLG1 | 760 | Disks large homolog 1 (Synapse-associated protein 97) (SAP-97) (hDlg) | DYEVDRyHFVTSR | Q12959 | 100 | 3 |
| 41 | -1.1 | DLG1 | 760 | Disks large homolog 1 (Synapse-associated protein 97) (SAP-97) (hDlg) | RDYEVDRyHFVTSR | Q12959 | 100 | 1 |
| 42 | -1 | SHB | §201 | SH2 domain-containing adapter protein B | LDyCGGSGEPGGVQR | Q15464 | 55 | 2 |
| 43 | -1.3 | SHB | §333 | SH2 domain-containing adapter protein B | DKVTIADdySDPFDAK | Q15464 | 55 | 4 |
| 44 | -1.1 | SHB | §333 | SH2 domain-containing adapter protein B | DKVTIADdySDPFDAKNDLK | Q15464 | 55 | 5 |
| 45 | -1.1 | SHB | 355 | SH2 domain-containing adapter protein B | AGKGESAGyMEPYEAQR | Q15464 | 55 | 6 |
| 46 | -1.1 | SHB | 355 | SH2 domain-containing adapter protein B | GESAGyMEPYEAQR | Q15464 | 55 | 3 |
| 47 | >-18.1 | SHC1 | §427 | SHC-transforming protein 1 (SH2 domain protein C1) | ELFDDPSyVNVQNLQK | P29353 | 63 | 7 |

LEGEND: § = published site, * - phosphorylation, # = oxidized methionine

TABLE: TYROSINE PHOSPHOSCAN® FINAL RESULTS, SILAC

STUDY DESIGN: Human non-small cell lung cancer (H3255) cell line; Trypsin Digest; Antibody: pY; CST #9411

Treatments: Untreated (Heavy), Iressa-treated (Light)

| Index | Fold-Change (Iressa / Untreated) | Protein Name | Phosphorylation Site | Description | Peptide | Accession | kD | Count in Study |
|-----------|----------------------------------|------------------------------|----------------------|--|-------------------------------|-----------|-----|----------------|
| 48 | >-13.9 | SPRY1 | 53 | Sprouty homolog 1 | GSNEyTEGSPVVK | O43609 | 35 | 1 |
| 49 | >-11.1 | SPRY1 | 89 | Sprouty homolog 1 | THEIIPVNNNyEHR | O43609 | 35 | 2 |
| 50 | >-15.8 | SPRY4 | §75 | Sprouty homolog 4 | TSHVENDyIDNPSLALTGPKR | Q6QIX2 | 35 | 1 |
| 51 | >-11.3 | TNS3 | §780 | Tumor endothelial marker 6 | KLsLGQyDNDAGGQLPFSK | Q8IZW7 | 155 | 2 |
| 52 | -8.7 | TNS3 | §780 | Tumor endothelial marker 6 | LSLGQyDNDAGGQLPFSK | Q8IZW7 | 155 | 1 |
| 53 | -7.4 | TNS3 | §780 | Tumor endothelial marker 6 | KLsLGQyDNDAGGQLPFSK | Q8IZW7 | 155 | 5 |
| 54 | -1.1 | TNS1 | 1404 | Tensin-1 | AGSLPNyATINGK | Q9HBL0 | 186 | 2 |
| 55 | -1.9 | TJP2 | §1118 | Tight junction protein ZO-2 (Zonula occludens protein 2) | IEIAQKHPDiyAVPIK | Q9UDY2 | 134 | 3 |
| 56 | | Adhesion proteins | | | | | | |
| 57 | >-11.8 | CTNNB1 | 30 | Catenin beta-1 | AAVSHWQQQsYLDsGIHSGATTAPSLSGK | P35222 | 86 | 2 |
| 58 | -2.6 | CDH1 | §753 | Epithelial cadherin | DNVyyDEEGGGEEDQFDLSQLHR | P12830 | 98 | 2 |
| 59 | -2.1 | ERBB2IP | §1104 | Protein LAP2 (ErbB2-interacting protein) (Erbin) (Densin-180-like protein) | RAIQPEGDyLSYR | Q96RT1 | 158 | 6 |
| 60 | -3.1 | ERBB2IP | §1104 | Protein LAP2 (ErbB2-interacting protein) (Erbin) (Densin-180-like protein) | RAIQPEGDyLSYR | Q96RT1 | 158 | 8 |
| 61 | -17.8 | ERBB2IP | 1164 | Protein LAP2 (ErbB2-interacting protein) (Erbin) (Densin-180-like protein) | TMSVSDFNySR | Q96RT1 | 158 | 2 |
| 62 | -3 | F11R | 280 | Junctional adhesion molecule A | KVlySQPSAR | Q9Y624 | 33 | 4 |
| 63 | -2.1 | F11R | 280 | Junctional adhesion molecule A | VlySQPSAR | Q9Y624 | 33 | 2 |
| 64 | -33.7 | ITGB1 | §783 | Integrin beta-1 | WDTGENPlyKSAVTVVNPk | P05556 | 89 | 1 |
| 65 | -2.4 | ITGB1 | §783 | Integrin beta-1 | WDTGENPlyK | P05556 | 89 | 4 |
| 66 | -103.9 | ITGB1 | §795 | Integrin beta-1 | SAVTTVNPkYEGK | P05556 | 89 | 1 |
| 67 | -1.7 | MUC1 | §1203 | Mucin-1 | DTYHPMSEyPTyHThGR | P15941 | 122 | 2 |
| 68 | -0.8 | MUC1 | 1209 | Mucin-1 | DTYHPMSEyPTyHThGR | P15941 | 122 | 1 |
| 69 | -0.9 | MUC1 | 1209, §1212 | Mucin-1 | DTYHPMSEyPTyHThGR | P15941 | 122 | 1 |
| 70 | -1.6 | MUC1 | §1212 | Mucin-1 | DTYHPMSEyPTyHThGR | P15941 | 122 | 2 |
| 71 | -1.9 | MUC1 | §1229 | Mucin-1 | YVPPSSTRDRSPyEK | P15941 | 122 | 3 |
| 72 | -1.8 | PVRL1 | 468 | Poliovirus receptor-related protein 1 | YDEDAKRPyFTVDEAEAR | Q15223 | 57 | 4 |
| 73 | -0.7 | PVRL4 | 445 | Poliovirus receptor-related protein 4 | SySTLITTVR | Q96K15 | 55 | 1 |
| 74 | -0.9 | PVRL4 | 502 | Poliovirus receptor-related protein 4 | AKPTGNGIyINGR | Q96K15 | 55 | 4 |
| 75 | >-7.9 | OCLN | 287 | Occludin | SNILWdKEHIyDEQPPNVEEWVK | Q16625 | 59 | 1 |
| 76 | -6.3 | PKP2 | 166 | Plakophilin-2 | AHYTHSDyQYSQR | Q99959 | 97 | 4 |
| 77 | -5.1 | PKP2 | 631 | Plakophilin-2 | YSQNlyIQNR | Q99959 | 97 | 1 |
| 78 | -6.8 | PKP3 | §84 | Plakophilin-3 | GQyHTLQAGFSSR | Q9Y446 | 87 | 9 |
| 79 | -2.7 | PKP3 | 176 | Plakophilin-3 | ADyDTLSLR | Q9Y446 | 87 | 7 |
| 80 | -1 | PKP3 | 176 | Plakophilin-3 | GGVGSRADyDTLSLR | Q9Y446 | 87 | 2 |
| 81 | -1.1 | PKP3 | 390 | Plakophilin-3 | NLyDNADNK | Q9Y446 | 87 | 1 |
| 82 | -4.5 | PKP4 | 157 | Plakophilin-4 (p0071) | SSTQMNSYSDSGyQEAGSFHNSQNVSK | Q99569 | 134 | 1 |
| 83 | -0.8 | PKP4 | 372 | Plakophilin-4 (p0071) | TVHDMEQFGQQYDIyER | Q99569 | 134 | 4 |
| 84 | -0.7 | PKP4 | §415 | Plakophilin-4 (p0071) | SAVSPDLHITPIyEGR | Q99569 | 134 | 3 |
| 85 | -1.6 | PKP4 | 470 | Plakophilin-4 (p0071) | NNyALNTTATyAEPYRPIQYR | Q99569 | 134 | 1 |
| 86 | -1.5 | PKP4 | 470, §478 | Plakophilin-4 (p0071) | NNyALNTTATyAEPYRPIQYR | Q99569 | 134 | 2 |
| 87 | -1.1 | PKP4 | §478 | Plakophilin-4 (p0071) | NNyALNTTATyAEPYRPIQYR | Q99569 | 134 | 2 |
| 88 | -1.3 | PKP4 | 1168 | Plakophilin-4 (p0071) | STTNyVDFYSTK | Q99569 | 134 | 7 |
| 89 | -1.7 | SDC4 | 197 | Syndecan-4 | KAPTNEFyA | P31431 | 22 | 2 |
| 90 | -0.7 | VCL | §821 | Vinculin (Metavinculin) | SFLDSGyR | P18206 | 124 | 4 |
| 91 | | Cytoskeletal proteins | | | | | | |
| 92 | -1 | KRT7 | 39 | Keratin, type II cytoskeletal 7 (Cytokeratin-7) (Sarcolelectin) | LSSARPGGLGSSsLyLGLGASRPR | P08729 | 51 | 2 |
| 93 | -0.7 | KRT7 | 39 | Keratin, type II cytoskeletal 7 (Cytokeratin-7) (Sarcolelectin) | LSSARPGGLGSSsLyLGLGASRPR | P08729 | 51 | 4 |
| 94 | -8.4 | CLDN3 | 214 | Claudin-3 (CPE-receptor 2) (HRVP1) | STGPGASLGTGyDR | O15551 | 23 | 1 |

LEGEND: § = published site, * - phosphorylation, # = oxidized methionine

TABLE: TYROSINE PHOSPHOSCAN® FINAL RESULTS, SILAC

STUDY DESIGN: Human non-small cell lung cancer (H3255) cell line; Trypsin Digest; Antibody: pY; CST #9411

Treatments: Untreated (Heavy), Iressa-treated (Light)

| Index | Fold-Change (Iressa / Untreated) | Protein Name | Phosphorylation Site | Description | Peptide | Accession | kD | Count in Study |
|-------|----------------------------------|---|----------------------|---|------------------------------|--------------------------------|-----|----------------|
| 95 | -9.3 | CLDN3 | 219 | Claudin-3 (CPE-receptor 2) (HRVP1) | STGPGASLGTGYDRKDyV | O15551 | 23 | 3 |
| 96 | -5.8 | CFL1 | §139 | Cofilin-1 (Cofilin, non-muscle) | LTGIKHELQANCYEIVKDR | P23528 | 19 | 2 |
| 97 | -4.3 | CFL1 | §139 | Cofilin-1 (Cofilin, non-muscle) | HELQANCYEIVKDR | P23528 | 19 | 3 |
| 98 | -1.2 | CTTN | §421 | Src substrate cactactin (Amplaxin) (Oncogene EMS1) | LPSSPVyEDAASFk | Q14247 | 62 | 2 |
| 99 | -1.8 | CTTN | §446 | Src substrate cactactin (Amplaxin) (Oncogene EMS1) | GPVSGTEPEPVySMEAADYR | Q14247 | 62 | 6 |
| 100 | -159.2 | JUP | §19 | Junction plakoglobin (Desmoplakin-3) (Desmoplakin III) (Catenin gamma) | VTEWQQTyTYDSGIHSGANTCVPSVSSK | P14923 | 82 | 2 |
| 101 | -34.3 | EPB41L4B | 479 | Band 4.1-like protein 4B (Protein EHM2) (FERM-containing protein CG1) | ASAGDDSHFDyVHDQNKQ | Q9H329-2 | 57 | 2 |
| 102 | >6.3 | VIL2 | 423 | Ezrin (p81) (Cytovillin) (Villin-2) | SQEQLAAELAEyTAK | P15311 | 69 | 2 |
| 103 | -1.6 | PXN | §88 | Paxillin | FIHQQPQSSsPVyGSSAK | P49023 | 65 | 3 |
| 104 | -1.5 | PXN | §88 | Paxillin | FIHQQPQSSsPVyGSSAK | P49023 | 65 | 2 |
| 105 | -0.7 | PXN | §88 | Paxillin | FIHQQPQSSsPVyGSSAK | P49023 | 65 | 5 |
| 106 | -1 | PXN | §118 | Paxillin | VGEEEHVysFPNK | P49023 | 65 | 7 |
| 107 | -0.9 | PXN | §118 | Paxillin | VGEEEHVysFPNKQK | P49023 | 65 | 9 |
| 108 | -0.5 | SNIP | 136 | p130Cas-associated protein (p140Cap) (SNAP-25-interacting protein) (SNIP) | KEPLyAAFPGSHLTNGDLR | Q9C0H9 | 113 | 3 |
| 109 | -0.8 | SNIP | 268 | p130Cas-associated protein (p140Cap) (SNAP-25-interacting protein) (SNIP) | GEGLyADPYGLLHEGR | Q9C0H9 | 113 | 3 |
| 110 | -3.9 | TAGLN2; TAGLN3 | 191; 192 | Transgelin-2 (SM22-alpha homolog) | GASQAGMTGyGMPR | P37802 | 22 | 2 |
| 111 | -0.9 | TLN1 | 70 | Talin-1 | ALDyYMLR | Q9Y490 | 270 | 11 |
| 112 | -9.6 | TLN1 | 127 | Talin-1 | IGFTNHDEySLVR | Q9Y490 | 270 | 2 |
| 113 | -1.1 | TUBB4; TUBB; TUBB2C; TUBB3 | 340; 340; 340; 340 | Tubulin beta-4 chain (Tubulin 5 beta) | NSSyFVEWIPNNVK | P04350; P07437; P68371; Q13509 | 50 | 1 |
| 114 | | Enzyme, misc. | | | | | | |
| 115 | -1 | ALDH9A1 | 476 | 4-trimethylaminobutyraldehyde dehydrogenase | VTIEyYSQLK | P49189 | 54 | 2 |
| 116 | -1.3 | ALDOA | 2 | Fructose-bisphosphate aldolase A (Lung cancer antigen NY-LU-1) | PyQYPALTPEQK | P04075 | 39 | 3 |
| 117 | -2 | CALM1; CALM2; CALM3 | §99 | Calmodulin (CaM) | VFDKDGyGISAAELR | P62158 | 17 | 4 |
| 118 | -0.3 | CTPS | 473 | CTP synthase 1 (UTP--ammonia ligase 1) (CTP synthetase 1) | KLYGDADyLEER | P17812 | 67 | 2 |
| 119 | -5.4 | DDX3X | §103 | ATP-dependent RNA helicase DDX3X (DEAD box protein 3, X-chromosomal) | GRSDyDGIISR | O00571 | 73 | 1 |
| 120 | -1 | ENO1; ENO2; ENO3 | §43; 43; §43 | Alpha-enolase (2-phospho-D-glycerate hydro-lyase) (Non-neural enolase) | AAVPSGASTGyEALERL | P06733; P09104; P13929 | 47 | 2 |
| 121 | -0.7 | G6PD | §400 | Glucose-6-phosphate 1-dehydrogenase (G6PD) | VQPNEAVyTK | P11413 | 59 | 1 |
| 122 | -1.5 | G6PD | 502 | Glucose-6-phosphate 1-dehydrogenase (G6PD) | VGfQyEGTyK | P11413 | 59 | 2 |
| 123 | -1.5 | G6PD | 502 | Glucose-6-phosphate 1-dehydrogenase (G6PD) | RVGFQyEGTyK | P11413 | 59 | 3 |
| 124 | -5 | G6PD | §506 | Glucose-6-phosphate 1-dehydrogenase (G6PD) | VGfQyEGTyK | P11413 | 59 | 5 |
| 125 | -1.5 | G6PD | §506 | Glucose-6-phosphate 1-dehydrogenase (G6PD) | RVGFQyEGTyK | P11413 | 59 | 2 |
| 126 | -1 | LDHA | §238 | L-lactate dehydrogenase A chain (LDH-A) (LDH muscle subunit) (LDH-M) | QVVESAyEVIK | P00338 | 37 | 1 |
| 127 | -1 | LDHB | §239 | L-lactate dehydrogenase B chain (LDH-B) (LDH heart subunit) (LDH-H) | MVVESAyEVIK | P07195 | 37 | 4 |
| 128 | -2 | ATP1A1 | 260 | Sodium/potassium-transporting ATPase subunit alpha-1 | GIVyTGDR | P05023 | 113 | 4 |
| 129 | -30.9 | PLCG1 | §771 | 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1 | IGTAEPyGALYEGR | P19174 | 149 | 1 |
| 130 | -44.5 | PLCG1 | §783 | 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-2 | NPGfVYeanPMPTFK | P19174 | 149 | 2 |
| 131 | | GTP binding protein or regulator | | | | | | |
| 132 | >8.5 | ARHGEF5 | 710 | FLJ00261 protein | SGRDySTVSASPTALSTLK | Q6ZML7 | 182 | 2 |
| 133 | -0.4 | ARHGEF5 | 1424 | FLJ00261 protein | RTEELyLSQK | Q6ZML7 | 182 | 1 |
| 134 | -13.4 | GNAI3 | 60 | Guanine nucleotide-binding protein G(k) subunit alpha (G(i) alpha-3) | IHHEDGySEDECKQYK | P08754 | 41 | 1 |
| 135 | -11.1 | GNAI3 | 60 | Guanine nucleotide-binding protein G(k) subunit alpha (G(i) alpha-3) | IHHEDGySEDECK | P08754 | 41 | 2 |
| 136 | -1 | IQGAP1 | §1510 | Ras GTPase-activating-like protein IQGAP1 (p195) | LQQTyAALNSK | P46940 | 189 | 2 |
| 137 | -21.4 | RAB34 | 247 | Ras-related protein Rab-34 (Rab-39) (Ras-related protein Rah) | INSDDSNLyLTASK | Q9BZG1 | 29 | 2 |
| 138 | | Kinase (non-protein) | | | | | | |
| 139 | >9.6 | GUK1 | 53 | Guanylate kinase (GMP kinase) | NPRPGEENGKdyFVTR | Q16774 | 22 | 1 |
| 140 | -1.1 | PIK3R1 | 467 | Phosphatidylinositol 3-kinase regulatory subunit alpha | SREYDRLyEYyTR | P27986 | 84 | 2 |
| 141 | -1 | PIK3R2 | §464 | Phosphatidylinositol 3-kinase regulatory subunit beta | SREYDQLyEYyTR | O00459 | 82 | 3 |

LEGEND: § = published site, * - phosphorylation, # = oxidized methionine

TABLE: TYROSINE PHOSPHOSCAN® FINAL RESULTS, SILAC

STUDY DESIGN: Human non-small cell lung cancer (H3255) cell line; Trypsin Digest; Antibody: pY; CST #9411

Treatments: Untreated (Heavy), Iressa-treated (Light)

| Index | Fold-Change (Iressa / Untreated) | Protein Name | Phosphorylation Site | Description | Peptide | Accession | kD | Count in Study |
|-------|----------------------------------|---|----------------------|---|--------------------------|------------------------|-----|----------------|
| 142 | -1 | PIK3R2 | \$464 | Phosphatidylinositol 3-kinase regulatory subunit beta | EYDQLYEEYTR | 000459 | 82 | 2 |
| 143 | -1.2 | PIK3R2 | \$467 | Phosphatidylinositol 3-kinase regulatory subunit beta | EYDQLYEEYTR | 000459 | 82 | 3 |
| 144 | -17.6 | PIK3R2 | 605 | Phosphatidylinositol 3-kinase regulatory subunit beta | NETEDQyALMEDEDDLPHHEER | 000459 | 82 | 1 |
| 145 | -0.9 | PI4KA | 973 | Phosphatidylinositol 4-kinase alpha (PI4-kinase alpha) | DQPpYIDPDAPYR | P42356 | 231 | 3 |
| 146 | | Lipid binding proteins | | | | | | |
| 147 | >-4.9 | ANXA1 | \$20 | Annexin A1 (Lipocortin I) (Phospholipase A2 inhibitory protein) | QAWFIENEQEEyVQTVK | P04083 | 39 | 2 |
| 148 | -4.3 | ANXA1 | 38 | Annexin A1 (Lipocortin I) (Phospholipase A2 inhibitory protein) | GGPGSAVSPyPTFNPSDDVAALHK | P04083 | 39 | 2 |
| 149 | -1.6 | ANXA2 | \$23 | Annexin A2 (Lipocortin II) (Calpactin I heavy chain) | LSLEGDHSTPPSAyGSVK | P07355 | 39 | 4 |
| 150 | -38.1 | ANXA2 | \$29 | Annexin A2 (Lipocortin II) (Calpactin I heavy chain) | AyTNFDAERDALNIETAIK | P07355 | 39 | 3 |
| 151 | -6.7 | ANXA2 | \$29 | Annexin A2 (Lipocortin II) (Calpactin I heavy chain) | AyTNFDAER | P07355 | 39 | 3 |
| 152 | -3.4 | ANXA2 | \$237 | Annexin A2 (Lipocortin II) (Calpactin I heavy chain) | SYSpyDMLESIRK | P07355 | 39 | 4 |
| 153 | -2.2 | ANXA2 | \$237 | Annexin A2 (Lipocortin II) (Calpactin I heavy chain) | SYSpyDMLESIR | P07355 | 39 | 1 |
| 154 | -0.8 | PLEKHA6 | \$492 | Pleckstrin homology domain-containing family A member 6 (PEPP-3) | SEDlyADPAAYVMR | Q9Y2H5 | 117 | 3 |
| 155 | | Other | | | | | | |
| 156 | -2 | AP2B1 | 276 | AP-2 complex subunit beta-1 (Beta-adaptin) | DSDyYNMLLK | P63010 | 105 | 2 |
| 157 | -1.9 | CSTB | 97 | Cystatin-B (Stefin-B) (Liver thiol proteinase inhibitor) (CPI-B) | AKHDELTYF | P04080 | 11 | 2 |
| 158 | -1.2 | EFNB2 | \$304 | Ephrin-B2 | TADSVFCPhyEK | P52799 | 37 | 3 |
| 159 | -10.7 | DNAJA1 | \$381 | DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4) | HYNGEAYEDDEHPR | P31689 | 45 | 2 |
| 160 | -27.3 | ERRF1 | 394 | ERBB receptor feedback inhibitor 1 (Mitogen-inducible gene 6 protein) (Mig-6) | VSSTHyLLPERPPYLDKYEK | Q9UJM3 | 51 | 2 |
| 161 | >-57.0 | ERRF1 | 395 | ERBB receptor feedback inhibitor 1 (Mitogen-inducible gene 6 protein) (Mig-6) | VSSTHyLLPERPPYLDKYEK | Q9UJM3 | 51 | 1 |
| 162 | -13.7 | MYO6 | 1114 | myosin VI | SVTdyAQQNPAAQIPAR | CAI19522 | 145 | 2 |
| 163 | -6.9 | STX4 | 251 | Syntaxin-4 (Renal carcinoma antigen NY-REN-31) | NILLSADyVER | Q12846 | 34 | 2 |
| 164 | -2.6 | HDLBP | \$437 | Vigilin (High density lipoprotein-binding protein) (HDL-binding protein) | MDyVEINIDHK | Q00341 | 141 | 7 |
| 165 | -5 | VTI1B | 115 | Vesicle transport through interaction with t-SNAREs homolog 1B | YGLyAVENEHMNR | Q9UEU0 | 27 | 1 |
| 166 | | Phosphatase | | | | | | |
| 167 | -1.4 | PTPRA | \$798 | Receptor-type tyrosine-protein phosphatase alpha precursor (R-PTP-alpha) | VVQEYIDAFSDyANFK | P18433 | 91 | 5 |
| 168 | -0.7 | INPPL1 | \$886 | Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase 2 (SHIP-2) | ERLyEWISIDKDEAGAK | O15357 | 139 | 1 |
| 169 | -4.2 | INPPL1 | \$1135 | Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase 2 (SHIP-2) | TLSEVDyAPAGPAR | O15357 | 139 | 2 |
| 170 | -0.9 | PTPN11 | \$62 | Tyrosine-protein phosphatase non-receptor type 11 (PTP-2C)(SHP-2) | IQNTGDyYDLGGGEK | Q06124 | 68 | 4 |
| 171 | -7.3 | PTPN11 | \$580 | Tyrosine-protein phosphatase non-receptor type 11 (PTP-2C)(SHP-2) | VyENVGLMQQKQ | Q06124 | 68 | 2 |
| 172 | | Protease | | | | | | |
| 173 | -2.9 | CPD | 1376 | Carboxypeptidase D | SLLSHEFQDETDEEETLySSKH | O75976 | 153 | 4 |
| 174 | -4.1 | CPD | 1344 | Carboxypeptidase D | LRQHDEyEDEIR | O75976 | 153 | 2 |
| 175 | -0.7 | PSMA2 | 56 | Proteasome subunit alpha type-2 (Proteasome component C3) | SILyDER | P25787 | 26 | 1 |
| 176 | -0.6 | PSMA2 | 75 | Proteasome subunit alpha type-2 (Proteasome component C3) | HIGLySGMGPDYR | P25787 | 26 | 2 |
| 177 | | Protein kinase, dual-specificity | | | | | | |
| 178 | -0.9 | DYRK1A; DYRK1B | \$321; \$273 | Dual specificity tyrosine-phosphorylation-regulated kinase 1A | IYQyIQSR | Q13627; Q9Y463 | 86 | 8 |
| 179 | -1.3 | DYRK2; DYRK4 | \$309; 286 | Dual specificity tyrosine-phosphorylation-regulated kinase 2 | VYTyIQSR | Q92630; Q9NR20 | 60 | 2 |
| 180 | | Protein kinase, Ser/Thr (non-receptor) | | | | | | |
| 181 | -1.5 | CDC2 | \$15 | Cell division control protein 2 homolog (CDK1) | IEKIGEGTyGVVYK | P06493 | 34 | 5 |
| 182 | -0.8 | CDC2 | \$15 | Cell division control protein 2 homolog (CDK1) | IGEGTyGVVYKGR | P06493 | 34 | 3 |
| 183 | -0.7 | CDC2 | \$15 | Cell division control protein 2 homolog (CDK1) | IEKIGEGTyGVVYK | P06493 | 34 | 6 |
| 184 | -0.8 | CDC2 | \$19 | Cell division control protein 2 homolog (CDK1) | IGEGTyGVVYKGR | P06493 | 34 | 1 |
| 185 | -1.2 | CDC2; CDK2; CDK3 | \$15; \$15; 15 | Cell division control protein 2 homolog (CDK1) | IGEGTyGVVYK | P06493; P24941; Q00526 | 34 | 6 |
| 186 | -0.8 | CDC2; CDK2; CDK3 | \$15; \$15; 15 | Cell division control protein 2 homolog (CDK1) | IGEGTyGVVYK | P06493; P24941; Q00526 | 34 | 8 |
| 187 | -0.8 | CDC2; CDK2; CDK3 | \$19; 19; 19 | Cell division control protein 2 homolog (CDK1) | IGEGTyGVVYK | P06493; P24941; Q00526 | 34 | 2 |
| 188 | -0.6 | CDK2; CDK3 | \$15; 15 | Cell division protein kinase 2 (p33 protein kinase) | VEKIGEGTyGVVYK | P24941; Q00526 | 34 | 1 |

LEGEND: § = published site, * = phosphorylation, # = oxidized methionine

TABLE: TYROSINE PHOSPHOSCAN® FINAL RESULTS, SILAC

STUDY DESIGN: Human non-small cell lung cancer (H3255) cell line; Trypsin Digest; Antibody: pY; CST #9411

Treatments: Untreated (Heavy), Iressa-treated (Light)

| Index | Fold-Change (Iressa / Untreated) | Protein Name | Phosphorylation Site | Description | Peptide | Accession | kD | Count in Study |
|-------|--|---------------------|------------------------|---|------------------------------|--------------------------------|-----|----------------|
| 189 | -1 | CDK2; CDK3 | §15; 15 | Cell division protein kinase 2 (p33 protein kinase) | VEKIGEGTyGVVYK | P24941; Q00526 | 34 | 4 |
| 190 | -1 | CDK5 | §15 | Cell division protein kinase 5 | IGEGTyGTVFK | Q00535 | 33 | 3 |
| 191 | -1.2 | CDKL5 | §171 | Cyclin-dependent kinase-like 5 (Serine/threonine-protein kinase 9) | NLSEGNANYTEyVATR | O76039 | 116 | 3 |
| 192 | -8.7 | MAPK3 | §204 | Mitogen-activated protein kinase 3 (ERK-1) (MAPK 1) | IADPEHDHTGFLIEyVATR | P27361 | 43 | 1 |
| 193 | -6.9 | MAPK3 | §204 | Mitogen-activated protein kinase 3 (ERK-1) (MAPK 1) | IADPEHDHTGFLIEyVATR | P27361 | 43 | 5 |
| 194 | -10.7 | MAPK1 | §186 | Mitogen-activated protein kinase 1 (ERK-2) (MAPK 2) | VADPDHDHTGFLIEyVATR | P28482 | 41 | 6 |
| 195 | -8.2 | MAPK1 | §186 | Mitogen-activated protein kinase 1 (ERK-2) (MAPK 2) | VADPDHDHTGFLIEyVATR | P28482 | 41 | 9 |
| 196 | -6.8 | MAPK7 | §220 | Mitogen-activated protein kinase 7 (ERK-5) | GLCTSPAHEQYFMTEyVATR | Q13164 | 89 | 2 |
| 197 | -0.9 | GSK3A; GSK3B | §279; §216 | Glycogen synthase kinase-3 alpha (GSK-3 alpha) | GEPNVSyICSR | P49840; P49841 | 51 | 19 |
| 198 | -0.9 | GSK3A; GSK3B | §279; §216 | Glycogen synthase kinase-3 alpha (GSK-3 alpha) | GEPNVSyICSR | P49840; P49841 | 51 | 8 |
| 199 | -1.2 | HIPK1; HIPK2 | §352; §361 | Homeodomain-interacting protein kinase 1 | AVCSTyLQSR | Q86Z02; Q9H2X6 | 131 | 3 |
| 200 | -4.8 | HIPK3 | §359 | Homeodomain-interacting protein kinase 3 (FIST) (ANPK) | TVCSYtLQSR | Q9H422 | 134 | 1 |
| 201 | -0.9 | ICK | §159 | Serine/threonine-protein kinase ICK (MRK) (LCK2) | SKPPYtDyVSTR | Q9UJ29 | 71 | 2 |
| 202 | >-8.4 | MINK1 | 906 | Misshapen-like kinase 1 (MAPK/ERK kinase kinase kinase 6) (MEKKK 6) | NLLHADSNgyTNLPDyVQSPHSPTENSK | Q8N4C8 | 150 | 2 |
| 203 | -0.8 | MAPK14 | §181 | Mitogen-activated protein kinase 14 (MAP kinase p38 alpha) | HTDDEMTGyVATR | Q16539 | 41 | 9 |
| 204 | -0.8 | MAPK14 | §181 | Mitogen-activated protein kinase 14 (MAP kinase p38 alpha) | HTDDEMTGyVATR | Q16539 | 41 | 3 |
| 205 | -0.5 | MAPK13 | 182 | Mitogen-activated protein kinase 13 (MAP kinase p38 delta) | HADAEtMgyVSTR | O15264 | 42 | 5 |
| 206 | -1.1 | PRKCD | §313 | Protein kinase C delta type (nPKC-delta) | RSDSASSEPVgyQGFEKK | Q05655 | 78 | 1 |
| 207 | -1.4 | PRPF4B | §849 | Serine/threonine-protein kinase PRP4 homolog (PRP4 kinase) | LCDFGSASHVADNDITyLVSR | Q13523 | 117 | 6 |
| 208 | Protein kinase, tyrosine (non-receptor) | | | | | | | |
| 209 | -1.2 | PTK2 | §397 | Focal adhesion kinase 1 (FADK 1) (pp125FAK) (Protein-tyrosine kinase 2) | THAVSVSETDDyAEIIDEEDTYTMPSTR | Q05397 | 119 | 1 |
| 210 | -1.3 | PTK2 | §397, §407 | Focal adhesion kinase 1 (FADK 1) (pp125FAK) (Protein-tyrosine kinase 2) | THAVSVSETDDyAEIIDEEDTYTMPSTR | Q05397 | 119 | 1 |
| 211 | -0.9 | PTK2 | §576 | Focal adhesion kinase 1 (FADK 1) (pp125FAK) (Protein-tyrosine kinase 2) | YMEDSTyYK | Q05397 | 119 | 7 |
| 212 | -0.5 | PTK2 | §576, §577 | Focal adhesion kinase 1 (FADK 1) (pp125FAK) (Protein-tyrosine kinase 2) | YMEDSTyYKASK | Q05397 | 119 | 2 |
| 213 | -0.9 | PTK2 | §577 | Focal adhesion kinase 1 (FADK 1) (pp125FAK) (Protein-tyrosine kinase 2) | YMEDSTyYK | Q05397 | 119 | 1 |
| 214 | -0.9 | FRK | 46 | Tyrosine-protein kinase FRK (FYN-related kinase) | HGHyFVALFDyQAR | P42685 | 58 | 5 |
| 215 | -0.6 | LCK; FYN; YES1; SRC | §393; §419; §425; §418 | Proto-oncogene tyrosine-protein kinase LCK (LSK) | LIEDNEYtAR | P06239; P06241; P07947; P12931 | 61 | 2 |
| 216 | -0.7 | FYN; YES1 | 212; 221 | Proto-oncogene tyrosine-protein kinase Fyn (SLK) | KLDNGGyYITTR | P06241; P07947 | 61 | 2 |
| 217 | -0.9 | LYN; HCK | §396; §410 | Tyrosine-protein kinase Lyn | VIEDNEYtAR | P07948; P08631 | 59 | 2 |
| 218 | -0.6 | LYN | §192 | Tyrosine-protein kinase Lyn | SLDNGGyYISPR | P07948 | 59 | 2 |
| 219 | -1.1 | PTK2B | §579, §580 | Protein tyrosine kinase 2 beta (Focal adhesion kinase 2) (FADK 2) | YIEDEDyYKASVTRLPIK | Q14289 | 116 | 2 |
| 220 | -1.3 | TYK2 | §292 | Non-receptor tyrosine-protein kinase TYK2 | LLAQAEGEPcyIR | P29597 | 134 | 3 |
| 221 | Protein kinase, tyrosine (receptor) | | | | | | | |
| 222 | -11.2 | EGFR | §869 | Epidermal growth factor receptor | LLGAEKEyHAEGGKVPIK | P00533 | 134 | 3 |
| 223 | -52.1 | EGFR | §998 | Epidermal growth factor receptor | MHLPSPItDSNFyR | P00533 | 134 | 1 |
| 224 | -4.7 | EGFR | §998 | Epidermal growth factor receptor | MHLPSPTDSNFyR | P00533 | 134 | 10 |
| 225 | -42 | EGFR | §1110 | Epidermal growth factor receptor | RPAGSVQNPVyhNQPLNPAPSR | P00533 | 134 | 7 |
| 226 | -39 | EGFR | §1172 | Epidermal growth factor receptor | GSHQIsLDNPDyQQDFFPK | P00533 | 134 | 14 |
| 227 | -38.2 | EGFR | §1172 | Epidermal growth factor receptor | GSHQISLDNPDyQQDFFPK | P00533 | 134 | 17 |
| 228 | -36.4 | EGFR | §1172 | Epidermal growth factor receptor | GsHQISLDNPDyQQDFFPK | P00533 | 134 | 1 |
| 229 | >-25.3 | EGFR | §1197 | Epidermal growth factor receptor | EAKPNGIFKGSTAENAEyLR | P00533 | 134 | 2 |
| 230 | >-10.4 | EGFR | §1197 | Epidermal growth factor receptor | GStAENAEyLR | P00533 | 134 | 1 |
| 231 | -11.5 | EGFR | §1197 | Epidermal growth factor receptor | GStAENAEyLR | P00533 | 134 | 4 |
| 232 | -0.9 | EGFR; ERBB2; ERBB4 | §727; 735; 733 | Epidermal growth factor receptor | VLGSGAFGTyYK | P00533; P04626; Q15303 | 134 | 3 |
| 233 | -1.3 | EPHA1 | §781 | Ephrin type-A receptor 1 | LLDDFDGyETQGGKIPIR | P21709 | 108 | 3 |
| 234 | -1 | EPHA2 | 575 | Ephrin type-A receptor 2 | QSPEDVyFSKSEQLKPLK | P29317 | 108 | 2 |
| 235 | -0.8 | EPHA2 | 575 | Ephrin type-A receptor 2 | QSPEDVyFSK | P29317 | 108 | 2 |

LEGEND: § = published site, * = phosphorylation, # = oxidized methionine

TABLE: TYROSINE PHOSPHOSCAN® FINAL RESULTS, SILAC

STUDY DESIGN: Human non-small cell lung cancer (H3255) cell line; Trypsin Digest; Antibody: pY; CST #9411

Treatments: Untreated (Heavy), Iressa-treated (Light)

| Index | Fold-Change (Iressa / Untreated) | Protein Name | Phosphorylation Site | Description | Peptide | Accession | kD | Count in Study |
|-------|---|---------------------|----------------------|---|---------------------------|------------------------|-----|----------------|
| 236 | -1.4 | EPHA2 | §588 | Ephrin type-A receptor 2 | SEQLKPLKTyVDPHTYEDPNQAVLK | P29317 | 108 | 2 |
| 237 | -1.5 | EPHA2 | §588, §594 | Ephrin type-A receptor 2 | SEQLKPLKTyVDPHTYEDPNQAVLK | P29317 | 108 | 3 |
| 238 | -0.8 | EPHA2 | §588, §594 | Ephrin type-A receptor 2 | TyVDPHTYEDPNQAVLK | P29317 | 108 | 3 |
| 239 | -1 | EPHA2 | §594 | Ephrin type-A receptor 2 | TYVDPHTYEDPNQAVLK | P29317 | 108 | 5 |
| 240 | -1 | EPHA2 | §772 | Ephrin type-A receptor 2 | VLEDDPEATyTSSGGKIPIR | P29317 | 108 | 6 |
| 241 | -1 | EPHA2 | §772 | Ephrin type-A receptor 2 | VLEDDPEATyTSSGGK | P29317 | 108 | 5 |
| 242 | -1.2 | EPHA2 | §921 | Ephrin type-A receptor 2 | MQQyTEHFMAAGyTAIEK | P29317 | 108 | 2 |
| 243 | -0.9 | EPHA2 | §921, §930 | Ephrin type-A receptor 2 | MQQyTEHFMAAGyTAIEK | P29317 | 108 | 1 |
| 244 | -3.2 | EPHA2 | §930 | Ephrin type-A receptor 2 | MQQyTEHFMAAGyTAIEK | P29317 | 108 | 2 |
| 245 | -1 | EPHA3; EPHA5; EPHA4 | §779; 833; 779 | Ephrin type-A receptor 3 | VLEDDPEAAyTTR | P29320; P54756; P54764 | 110 | 2 |
| 246 | -0.9 | EPHA4 | §596, §602 | Ephrin type-A receptor 4 | TyVDPFTYEDPNQAVR | P54764 | 110 | 2 |
| 247 | -1.4 | EPHB3; EPHB4 | §614; 596 | Ephrin type-B receptor 3 | YyIDPFYEDPNEAVR | P54753; P54760 | 110 | 1 |
| 248 | -2.2 | EPHB4 | 574 | Ephrin type-B receptor 4 | EAEySDKHGQYLIGHGK | P54760 | 108 | 2 |
| 249 | -2.4 | EPHB4 | 774 | Ephrin type-B receptor 4 | FLEENSSDPTyTSSLGKIPIR | P54760 | 108 | 3 |
| 250 | -1.7 | EPHB4 | 774 | Ephrin type-B receptor 4 | FLEENSSDPTyTSSLGK | P54760 | 108 | 4 |
| 251 | -1 | EPHB4 | 987 | Ephrin type-B receptor 4 | SQAKPGTPGGTGGPAPQy | P54760 | 108 | 3 |
| 252 | -1.1 | ERBB2 | §877 | Receptor tyrosine-protein kinase erbB-2 | LLDIDETeYHADGGKVIPIK | P04626 | 138 | 3 |
| 253 | >-17.7 | ERBB3 | 1328 | Receptor tyrosine-protein kinase erbB-3 | SLEATDSAFDNPdYWHsr | P21860 | 148 | 1 |
| 254 | -1.3 | TYRO3; MERTK | 686; §754 | Tyrosine-protein kinase receptor TYRO3 | IYSGDyYR | Q06418; Q12866 | 97 | 1 |
| 255 | -1.3 | TYRO3; MERTK | 685; §753 | Tyrosine-protein kinase receptor TYRO3 | IYSGDyYR | Q06418; Q12866 | 97 | 1 |
| 256 | -1.5 | TYRO3; MERTK | 685; §753 | Tyrosine-protein kinase receptor TYRO3 | KIYSGDyYR | Q06418; Q12866 | 97 | 1 |
| 257 | -1.4 | MET | §1003 | Hepatocyte growth factor receptor | SVSPITTEMVMSNSVDyR | P08581 | 156 | 4 |
| 258 | -2.7 | MET | §1234 | Hepatocyte growth factor receptor | DMYDKEyYsvHNK | P08581 | 156 | 11 |
| 259 | -8.9 | MET | §1234, §1235 | Hepatocyte growth factor receptor | DMYDKEyYsvHNK | P08581 | 156 | 4 |
| 260 | -2.8 | MET | §1235 | Hepatocyte growth factor receptor | DMYDKEyYsvHNK | P08581 | 156 | 1 |
| 261 | Receptor, channel, or other cell surface protein | | | | | | | |
| 262 | -1.6 | APP | §757 | Amyloid beta A4 protein precursor (APP) (Alzheimer disease amyloid protein) | MQQNGyENPTyK | P05067 | 87 | 1 |
| 263 | -1.1 | APLP2 | 750 | Amyloid-like protein 2 | MQNHGyENPTyK | Q06481 | 87 | 2 |
| 264 | -0.6 | APLP2 | 755 | Amyloid-like protein 2 | MQNHGyENPTyK | Q06481 | 87 | 1 |
| 265 | -3.9 | CD46 | §354 | Membrane cofactor protein | GKADGGAeYATyQTK | P15529-4 | 41 | 2 |
| 266 | -3.8 | CD46 | §354 | Membrane cofactor protein | ADGGAeYATyQTK | P15529-4 | 41 | 3 |
| 267 | -3.9 | CD46 | §357 | Membrane cofactor protein | GKADGGAeYATyQTK | P15529-4 | 41 | 2 |
| 268 | -3.7 | CD46 | §357 | Membrane cofactor protein | ADGGAeYATyQTK | P15529-4 | 41 | 4 |
| 269 | >-9.1 | CD46 | 378 | Membrane cofactor protein | GTYLTDETHR | P15529 | 44 | 2 |
| 270 | >-6.8 | GJA1 | §246 | Gap junction alpha-1 protein (Connexin-43) | SDPyHATSGALSPAK | P17302 | 43 | 2 |
| 271 | -1.4 | GPRC5C | 387 | G-protein coupled receptor family C group 5 member C | VPSEGAyDIILPR | Q9NQ84 | 48 | 2 |
| 272 | -1 | GPRC5C | 414 | G-protein coupled receptor family C group 5 member C | AEDMySAQSHQAATPPKDGK | Q9NQ84 | 48 | 2 |
| 273 | -3.8 | LDLR | §845 | Low-density lipoprotein receptor | TTEDEVHICHNQDgySYPSR | P01130 | 95 | 2 |
| 274 | -0.7 | GPRC5A | §347 | Retinoic acid-induced protein 3 (Orphan G-protein-coupling receptor PEIG-1) | AHAWSPyKDYEVK | Q8NFJ5 | 40 | 2 |
| 275 | -0.6 | GPRC5A | §347, §350 | Retinoic acid-induced protein 3 (Orphan G-protein-coupling receptor PEIG-1) | AHAWSPyKDYEVKK | Q8NFJ5 | 40 | 2 |
| 276 | -0.5 | GPRC5A | §347, §350 | Retinoic acid-induced protein 3 (Orphan G-protein-coupling receptor PEIG-1) | AHAWSPyKDYEVKKEGS | Q8NFJ5 | 40 | 1 |
| 277 | -0.6 | GPRC5A | §350 | Retinoic acid-induced protein 3 (Orphan G-protein-coupling receptor PEIG-1) | AHAWSPyKDYEVKKEGS | Q8NFJ5 | 40 | 1 |
| 278 | -29.7 | SLITRK6 | 801 | SLIT and NTRK-like protein 6 | KVLVEQTKNEYFELK | Q9H5Y7 | 95 | 2 |
| 279 | -2 | TFRC | §20 | Transferrin receptor protein 1 (CD71 antigen) (T9) (p90) | SAFSLNFGGEPLSyTR | P02786 | 85 | 4 |
| 280 | Transcriptional regulation | | | | | | | |
| 281 | -28.8 | S100A11 | 30 | Protein S100-A11 (S100 calcium-binding protein A11) (Calgizzarin) (MLN 70) | YAGKDGyNYTLsk | P31949 | 12 | 1 |
| 282 | >-8.6 | SND1 | 304 | Staphylococcal nuclease domain-containing protein 1 | IWRDyVAPTANLDQKDK | Q13122 | 102 | 1 |

LEGEND: § = published site, * - phosphorylation, # = oxidized methionine

TABLE: TYROSINE PHOSPHOSCAN® FINAL RESULTS, SILAC

STUDY DESIGN: Human non-small cell lung cancer (H3255) cell line; Trypsin Digest; Antibody: pY; CST #9411

Treatments: Untreated (Heavy), Iressa-treated (Light)

| Index | Fold-Change (Iressa / Untreated) | Protein Name | Phosphorylation Site | Description | Peptide | Accession | kD | Count in Study |
|-------|----------------------------------|---------------------------------------|----------------------|--|--------------------------------|----------------|-----|----------------|
| 283 | >-10.4 | SND1 | 304 | Staphylococcal nuclease domain-containing protein 1 | IWRDyVAPTANLDQK | Q13122 | 102 | 2 |
| 284 | -37.6 | SND1 | §883 | Staphylococcal nuclease domain-containing protein 1 | ADDADEFyGSR | Q13122 | 102 | 1 |
| 285 | -1.6 | GRLF1 | §1087 | Glucocorticoid receptor DNA-binding factor 1 (GRF-1) (Rho GAP p190A) | SVSSSPWLPQDGFDPSPdyAEPMDAVVKPR | Q9NRY4 | 172 | 1 |
| 286 | -1.9 | GRLF1 | §1105 | Glucocorticoid receptor DNA-binding factor 1 (GRF-1) (Rho GAP p190A) | NEEENySVPHDSTQGG | Q9NRY4 | 172 | 11 |
| 287 | -0.7 | STAT3 | §705 | Signal transducer and activator of transcription 3 | YCRPESQEHPEADPGSAAPyLK | P40763 | 88 | 4 |
| 288 | -0.7 | STAT3 | §704 | Signal transducer and activator of transcription 4 | YCRPESQEHPEADPGAAPyLK | P40763-2 | 88 | 3 |
| 289 | >-44.7 | STAT5A; STAT5B | §694; §699 | Signal transducer and activator of transcription 5A | AVDGyVKPQIK | P42229; P51692 | 91 | 2 |
| 290 | | Translation initiation complex | | | | | | |
| 291 | -0.9 | EEF1A1; EEF1A2 | §29; §29 | Elongation factor 1-alpha 1 (Elongation factor Tu) | STTTGHLyK | P68104; Q05639 | 50 | 2 |
| 292 | -0.8 | EEF1A1; EEF1A2 | §141; §141 | Elongation factor 1-alpha 1 (Elongation factor Tu) | EHALLAyTLGVK | P68104; Q05639 | 50 | 2 |
| 293 | -0.9 | RPS27 | 30 | 40S ribosomal protein S27 (Metallopan-stimulin 1) (MPS-1) | LVQSPNSyFMDVK | P42677 | 10 | 10 |
| 294 | | Transporter | | | | | | |
| 295 | -0.7 | PITPNA | 139 | Phosphatidylinositol transfer protein alpha isoform | HVEAVyIDIADR | Q00169 | 32 | 3 |
| 296 | -7.3 | SLC38A2 | 41 | Amino acid transporter system A | SHyADVPENQNFLLLESNLGK | Q9HAV3 | 56 | 1 |
| 297 | -4 | SLC38A2 | 41 | Amino acid transporter system A | SHyADVPENQNFLLLESNLGKK | Q9HAV3 | 56 | 3 |
| 298 | | Unknown function | | | | | | |
| 299 | >-5.8 | TANC2 | 1793 | Amino acid transporter system A | TNNAQNGHLLLEDdyYSPHGMLANGSR | Q9HCD6 | 206 | 1 |
| 300 | -18.6 | TANC2 | 1794 | Amino acid transporter system A | TNNAQNGHLLLEDdyYSPHGMLANGSR | Q9HCD6 | 206 | 1 |
| 301 | >-9.0 | C21orf13 | 98 | Uncharacterized protein C21orf13 | yNVSKIsQSK | Q95447 | 77 | 1 |
| 302 | >-29.5 | CRIP2 | 196 | Cysteine-rich protein 2 (CRP2) (Protein ESP1) | GVNTGAVGSyIYDRDPEGK | P52943 | 23 | 5 |
| 303 | -5.6 | CRIP2 | 198 | Cysteine-rich protein 2 (CRP2) (Protein ESP1) | GVNTGAVGSyIYDRDPEGK | P52943 | 23 | 3 |
| 304 | >-6.6 | CRIP2 | 196, 198 | Cysteine-rich protein 2 (CRP2) (Protein ESP1) | GVNTGAVGSyIYDRDPEGK | P52943 | 23 | 1 |
| 305 | -2.9 | TMEM106B | 90 | TMEM106B | NGDVSQFPyVEFTGR | Q8N353 | 35 | 2 |
| 306 | -0.8 | FAM62A | §822 | Protein FAM62A (Membrane-bound C2 domain-containing protein) | HLSPyATLVGDSSHK | Q9BSJ8 | 123 | 6 |
| 307 | -10.2 | BAIAP2L1 | 163 | Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1 | EIEyVETVTSR | Q9UHR4 | 57 | 2 |
| 308 | -1.2 | KIAA1217 | 239 | Sickle tail protein | NVYyELNDVR | Q9ULK3 | 146 | 6 |
| 309 | -0.9 | KIAA1217 | §388 | Sickle tail protein | NEGFyADPYLYHEGR | Q9ULK3 | 146 | 6 |
| 310 | -7.1 | LSR | 324 | Lipolysis-stimulated lipoprotein receptor | SSSAGGGGSyVPLLR | Q86X29 | 71 | 2 |
| 311 | >-7.6 | LSR | 487 | Lipolysis-stimulated lipoprotein receptor | SRDDLyDQDDSRDFPR | Q86X29 | 71 | 1 |
| 312 | -5.4 | LSR | 503 | Lipolysis-stimulated lipoprotein receptor | SRDPHyDDFR | Q86X29 | 71 | 2 |
| 313 | -6.3 | LSR | 304 | LSR protein | NSSAGGGGSyVPLLR | Q9BWS2 | 64 | 2 |
| 314 | -4.1 | LLGL1 | 509 | Lethal(2) giant larvae protein homolog 1 | KVGFDPySDDPR | Q00188 | 112 | 2 |
| 315 | -2.5 | LLGL1 | 509 | Lethal(2) giant larvae protein homolog 1 | VGCFDPySDDPR | Q00188 | 112 | 4 |
| 316 | >-5.2 | LMBRD2 | 290 | LMBR1 domain-containing protein 2 | NMDDyEDFDEK | Q68DH5 | 81 | 1 |
| 317 | -0.9 | PLEKHA7 | 282 | Pleckstrin homology domain-containing family A member 7 | SADDTyLQLKK | Q86VZ7 | 85 | 2 |
| 318 | >-6.0 | LRBA | 1110 | Lipopolysaccharide-responsive and beige-like anchor protein | SIVEEEEDDyVELK | P50851 | 319 | 2 |
| 319 | -7.5 | MPP7 | 417 | Membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7) | SQESDGVeyIFISK | Q81Y28 | 66 | 2 |
| 320 | -23.2 | MPP7 | 417 | Membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7) | RSQESDGVeyIFISK | Q81Y28 | 66 | 1 |
| 321 | -4.8 | NAALADL2 | 106 | N-acetylated alpha-linked acidic dipeptidase-like protein 2 | LQEESDyITHYTR | Q58DX5 | 89 | 4 |
| 322 | -34.5 | NAALADL2 | 106, 110 | N-acetylated alpha-linked acidic dipeptidase-like protein 2 | LQEESDyITHYTR | Q58DX5 | 89 | 1 |
| 323 | -0.8 | PROSC | 69 | Proline synthetase co-transcribed bacterial homolog protein | TFGENyVQELLEK | Q94903 | 30 | 4 |
| 324 | -1.3 | PTTG1IP | 174 | Pituitary tumor-transforming gene 1 protein-interacting protein | YGLFKEENPyAR | P53801 | 20 | 1 |
| 325 | -1.3 | PTTG1IP | 174 | Pituitary tumor-transforming gene 1 protein-interacting protein | YGLFKEENPyAR | P53801 | 20 | 7 |
| 326 | >-12.6 | SLITRK5 | 945 | SLIT and NTRK-like protein 5 | LNVEPDyLEVLEK | Q94991 | 108 | 2 |
| 327 | -368.9 | STEAP1 | 27 | Metalloendopeptidase STEAP1 (Six-transmembrane epithelial antigen of prostate 1) | NLEEDDyLHKDTGETSMLK | Q9UHE8 | 40 | 1 |
| 328 | >-13.8 | STEAP1 | 27 | Metalloendopeptidase STEAP1 (Six-transmembrane epithelial antigen of prostate 1) | RNLEEDDyLHKDTGETSMLK | Q9UHE8 | 40 | 3 |

LEGEND: § = published site, * - phosphorylation, # = oxidized methionine