**Table SVI.** Association of linc01614 expression with clinical parameters of patients with pancreatic cancer (TCGA).

| Parameter                  | linc01614 expression | χ² value | P-value |
|----------------------------|----------------------|----------|---------|
|                            | Low | High |                       |
| Age (years)                |     |      |                       | 0.744   |
| <60                       | 26  | 28   | 0.107               |
| ≥60                       | 62  | 60   | 0.069               |
| Sex                       |     |      |                       | 0.618   |
| Male                      | 54  | 42   | 3.3                 |
| Female                    | 34  | 46   | 0.475               |
| Tumor size                |     |      |                       | 0.618   |
| <20 mm                    | 2   | 1    | 0.364               |
| ≥20 mm                    | 79  | 82   | 0.824               |
| Tumor location            |     |      |                       | 0.364   |
| Head                      | 66  | 71   | 0.824               |
| Body or tail              | 22  | 17   | 0.475               |
| Histological grade        |     |      |                       | 0.511   |
| G1 + G2                   | 63  | 61   | 0.511               |
| G3 + G4                   | 23  | 27   | 0.688               |
| TNM stage                 |     |      |                       | 0.161   |
| I+II                      | 82  | 84   | 0.822               |
| III+ IV                   | 4   | 3    | 0.364               |
| Number of positive lymph nodes |     |      |                       | 0.364   |
| <5                        | 64  | 72   | 0.822               |
| ≥5                        | 20  | 16   | 0.364               |
| Accession | Protein name | Gene        | Description                                                                 | Mw (kDa) | iBAQ  | iBAQ (%) |
|-----------|--------------|-------------|------------------------------------------------------------------------------|----------|-------|----------|
| A0A2R8YGF8 | A0A2R8YGF8_HUMAN | ACTB       | Actin, cytoplasmic 1 (Fragment) OS=Homo sapiens Ox=9606 GN=ACTB PE=1 SV=1 | 18.089   | 24692000 | 27.926171536 |
| CON_P35908 | KRT2       |            | SWISS-PROT: P35908 Tax_Id=9606 Gene_Symbol=KRT2 Keratin, type II cytoskeletal 2 epidermal | 65.865 | 10194000 | 11.529215642 |
| P49841    | GSK3B_HUMAN | GSK3B      | Glycogen synthase kinase-3 beta OS=Homo sapiens Ox=9606 GN=GSK3B PE=1 SV=2 | 46.744   | 9907300  | 11.204963521 |
| M0R1V7    | M0R1V7_HUMAN | UBA52      | Ubiquitin-60S ribosomal protein L40 (Fragment) OS=Homo sapiens Ox=9606 GN=UBA52 PE=1 SV=1 | 7.132    | 6659200  | 7.531456283  |
| P06733    | ENOA_HUMAN  | ENO1       | Alpha-enolase OS=Homo sapiens Ox=9606 GN=ENO1 PE=1 SV=2 | 47.169   | 6218400  | 7.0328894   |
| P02533    | K1C14_HUMAN | KRT14      | Keratin, type I cytoskeletal 14 OS=Homo sapiens Ox=9606 GN=KRT14 PE=1 SV=4 | 51.561   | 5285000  | 5.977232163  |
| F8VZ9Y9   | F8VZ9Y9_HUMAN | KRT18      | Keratin, type I cytoskeletal 18 OS=Homo sapiens Ox=9606 GN=KRT18 PE=1 SV=1 | 43.774   | 3848100  | 4.352126222  |
| P13647    | K2C5_HUMAN  | KRT5       | Keratin, type II cytoskeletal 5 OS=Homo sapiens Ox=9606 GN=KRT5 PE=1 SV=3 | 62.378   | 3529200  | 3.991456528  |
| D6RF44    | D6RF44_HUMAN | HNRNPD     | Heterogeneous nuclear ribonucleoprotein D0 (Fragment) OS=Homo sapiens Ox=9606 GN=HNRNPD PE=1 SV=8 | 12.553   | 2144900  | 2.425840164  |
| P26641    | EF1G_HUMAN  | EEF1G      | Elongation factor 1-gamma OS=Homo sapiens Ox=9606 GN=EEF1G PE=1 SV=3 | 50.119   | 1475800  | 1.668010083  |
| F5H3R9    | F5H3R9_HUMAN | ATP8B3     | Phospholipid-transporting ATPase IK OS=Homo sapiens Ox=9606 GN=ATP8B3 PE=1 SV=1 | 64.028   | 1316900  | 1.489388275  |
| Q5VSP4    | LC1L1_HUMAN | LCN1P1     | Putative lipocalin 1-like protein 1 OS=Homo sapiens Ox=9606 GN=LCN1P1 PE=5 SV=1 | 17.918   | 1136400  | 1.285246288  |
| K7EM39    | K7EM39_HUMAN | ARL5C      | Putative ADP-ribosylation factor-like protein 5C (Fragment) OS=Homo sapiens Ox=9606 GN=ARL5C PE=4 SV=1 | 11.126   | 1128800  | 1.276650835  |
| F8VP67    | F8VP67_HUMAN | KRT8       | Keratin, type II cytoskeletal 8 (Fragment) OS=Homo sapiens Ox=9606 GN=KRT8 PE=1 SV=1 | 13.588   | 990550   | 1.120292776  |
| P08779    | K1C16_HUMAN | KRT16      | Keratin, type I cytoskeletal 16 OS=Homo sapiens Ox=9606 GN=KRT16 PE=1 SV=4 | 51.268   | 928390   | 1.049991025  |
| P49411    | EFTU_HUMAN  | TUFM       | Elongation factor Tu, mitochondrial OS=Homo sapiens Ox=9606 GN=TUFM PE=1 SV=2 | 49.542   | 925800   | 1.047061786  |
| O95678    | K2C75_HUMAN | KRT75      | Keratin, type II cytoskeletal 75 OS=Homo sapiens Ox=9606 GN=KRT75 PE=1 SV=2 | 59.56    | 925480   | 1.046699872  |
| C9JTK6    | C9JTK6_HUMAN | OLA1       | Obg-like ATPase 1 (Fragment) OS=Homo sapiens Ox=9606 GN=OLA1 PE=1 SV=1 | 12.302   | 919350   | 1.039766961  |
| K7EM38    | K7EM38_HUMAN | ACTG1      | Actin, cytoplasmic 2 (Fragment) OS=Homo sapiens Ox=9606 GN=ACTG1 PE=1 SV=1 | 14.522   | 696330   | 0.787535681  |
| K7EMN2    | K7EMN2_HUMAN | PGD        | 6-Phosphogluconate dehydrogenase, decarboxylating (Fragment) OS=Homo sapiens Ox=9606 GN=PGD PE=1 SV=1 | 17.293   | 689330   | 0.779618817  |
| Accession  | Organism    | Description                                                                 | Taxonomy    | E-Value  | Database   | Gene Symbol | PID   | Enzyme annotation                        | EC   | KEGG Pathway | GO Terms |
|------------|-------------|-----------------------------------------------------------------------------|-------------|----------|------------|-------------|-------|--------------------------------------------|------|--------------|----------|
| CON_Q9QWL7| Krt17       | Keratin, type I cytoskeletal 17                                             | 10090       | 48.162   | SWISS-PROT | Q9QWL7      | 630810| 0.713433836                               |      |              |          |
| F8W9Z8     | HLA-C       | HLA class I histocompatibility antigen, C alpha chain                       | Homo sapiens| 15.088   | 605930     | Q9QWL7      | 68406 | 0.68529504                               |      |              |          |
| P02675     | FGB         | Fibrinogen beta chain                                                       | Homo sapiens| 55.928   | 462580     | Q9QWL7      | 68406 | 0.523168979                               |      |              |          |
| Q96GN5     | CDCA7L      | Cell division cycle-associated 7-like protein                              | Homo sapiens| 52.206   | 443090     | Q9QWL7      | 68406 | 0.501126168                               |      |              |          |
| J3QQM1     | PSMC5       | 26S proteasome regulatory subunit 8 (Fragment)                             | Homo sapiens| 29.347   | 424050     | Q9QWL7      | 68406 | 0.479592299                               |      |              |          |
| E7EQG2     | EIF4A2      | RNA helicase                                                               | Homo sapiens| 41.29    | 267890     | Q9QWL7      | 68406 | 0.302978377                               |      |              |          |
| Q5SX91     | GDI2        | Rab GDP dissociation inhibitor (Fragment)                                  | Homo sapiens| 23.115   | 238060     | Q9QWL7      | 68406 | 0.269241228                               |      |              |          |
| F8WC23     | PAXIP1      | PAX-interacting protein 1                                                  | Homo sapiens| 16.029   | 201950     | Q9QWL7      | 68406 | 0.22840152                               |      |              |          |
| CON_P02769 | Bovine serum albumin precursor                                              | Homo sapiens| 69.293   | 198590    | Q9QWL7      | 68406 | 0.224601426                               |      |              |          |
| Q5TA58     | AGO1        | Protein argonaute-1                                                        | Homo sapiens| 88.879   | 176910     | Q9QWL7      | 68406 | 0.200081768                               |      |              |          |
| Q86YZ3     | HRNR        | Hornerin                                                                  | Homo sapiens| 282.39   | 172380     | Q9QWL7      | 68406 | 0.194958426                               |      |              |          |
| O75380     | NDUFS6      | NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial       | Homo sapiens| 13.712   | 139680     | Q9QWL7      | 68406 | 0.157975362                               |      |              |          |
| Q6P1R3     | MSANTD2     | Myb/SANT-like DNA-binding domain-containing protein 2                        | Homo sapiens| 61.319   | 83032      | Q9QWL7      | 68406 | 0.093907576                               |      |              |          |
| Q49AM6     | COL4A5      | COL4A5 protein                                                             | Homo sapiens| 64.324   | 68406      | Q9QWL7      | 68406 | 0.077365855                               |      |              |          |
| H7BY35     | RYR2        | Ryanodine receptor 2                                                        | Homo sapiens| 562.61   | 66691      | Q9QWL7      | 68406 | 0.075426223                               |      |              |          |
| A0A087WTJ8 | TTC25       | Tetratricopeptide repeat protein 25                                         | Homo sapiens| 43.539   | 66627      | Q9QWL7      | 68406 | 0.075353841                               |      |              |          |
| A2A341     | SYCP2       | Synaptonemal complex protein 2 (Fragment)                                  | Homo sapiens| 116.534  | 64379      | Q9QWL7      | 68406 | 0.072811396                               |      |              |          |
| A0A0C4DH56 | PAPOLG      | Poly(A) polymerase gamma (Fragment)                                        | Homo sapiens| 42.315   | 62458      | Q9QWL7      | 68406 | 0.070638783                               |      |              |          |
| Q9NYA3     | GOLGA6A     | Golgin subfamily A member 6A                                               | Homo sapiens| 79.946   | 61839      | Q9QWL7      | 68406 | 0.069938706                               |      |              |          |
| Q6ZN44     | UNC5A       | Netrin receptor                                                            | Homo sapiens| 92.932   | 60275      | Q9QWL7      | 68406 | 0.068169852                               |      |              |          |
| Accession | Name        | Description                                                                 | Protein ID | Other Information                                                                 |
|-----------|-------------|------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------|
| Q9NRW4    | DUS22_HUMAN | DUSP22 Dual specificity protein phosphatase 22 OS=Homo sapiens OX=9606 GN=DUSP22 PE=1 SV=1 |            | 20.91 47889 0.054161527                                                         |
| Q9UKE5    | TNIK_HUMAN  | TNIK TRAF2 and NCK-interacting protein kinase OS=Homo sapiens OX=9606 GN=TNIK PE=1 SV=1 |            | 154.943 43906 0.049656832                                                        |
| Q96B21    | TM45B_HUMAN | TMEM45B Transmembrane protein 45B OS=Homo sapiens OX=9606 GN=TMEM45B PE=1 SV=1 |            | 31.826 33049 0.037377776                                                         |
| E5RHR8    | E5RHR8_HUMAN | SGK3 Serine/threonine-protein kinase Sgk3 (Fragment) OS=Homo sapiens OX=9606 GN=SGK3 PE=1 SV=1 |            | 14.407 32608 0.036879014                                                         |
| Q86SR1    | GLT10_HUMAN | GALNT10 Polypeptide N-acetylgalactosaminyltransferase 10 OS=Homo sapiens OX=9606 GN=GALNT10 PE=1 SV=2 |            | 68.992 25816 0.029197394                                                         |
| Q5SZ59    | Q5SZ59_HUMAN | OTUD7B Ubiquitinyl hydrolase 1 (Fragment) OS=Homo sapiens OX=9606 GN=OTUD7B PE=1 SV=1 |            | 47.599 23335 0.026391431                                                         |
| O00370    | LORF2_HUMAN | LINE-1 retrotransposable element ORF2 protein OS=Homo sapiens OX=9606 PE=1 SV=1 |            | 149.012 20120 0.022755328                                                         |
| Q8IYB4    | PEX5R_HUMAN | PEX5L PEX5-related protein OS=Homo sapiens OX=9606 GN=PEX5L PE=1 SV=2 |            | 69.697 19930 0.022540442                                                         |
| A0A0A0MRE6| A0A0A0MRE6_HUMAN | WDR47 WD repeat-containing protein 47 OS=Homo sapiens OX=9606 GN=WDR47 PE=1 SV=1 |            | 98.702 18668 0.021113145                                                         |
| A0A3B3IRP6| A0A3B3IRP6_HUMAN | HERC2 E3 ubiquitin-protein ligase HERC2 (Fragment) OS=Homo sapiens OX=9606 GN=HERC2 PE=1 SV=1 |            | 156.277 16492 0.018652131                                                         |
| P17027    | ZNF23_HUMAN | ZNF23 Zinc finger protein 23 OS=Homo sapiens OX=9606 GN=ZNF23 PE=1 SV=3 |            | 73.059 15846 0.017921518                                                         |
| Q9NVE5    | UBP40_HUMAN | USP40 Ubiquitin carboxyl-terminal hydrolase 40 OS=Homo sapiens OX=9606 GN=USP40 PE=1 SV=3 |            | 140.13 14335 0.016212606                                                         |