

**Supplement table1 List of studies including in height main exposure analysis**

| <b>Study description</b>  | <b>Study design</b>           | <b>Study acronym</b> | <b>Cases</b> | <b>Controls</b> | <b>Total</b> |
|---|-------------------------------|----------------------|--------------|-----------------|--------------|
| Cancer of the Prostate in Sweden  | Case-control                  | CAPS                 | 1126         | 648             | 1774         |
| Epidemiological investigations of the chances of preventing, recognizing early and optimally treating chronic diseases in an elderly population | population-based cohort study | ESTHER               | 308          | 311             | 619          |
| Fred Hutchinson Cancer Research Center  | Population-based case-control | FHCRC                | 603          | 636             | 1239         |
| Melbourne Collaborative Cohort Study  | population-based cohort study | MCCS                 | 622          | 0               | 622          |
| The Moffitt Group   | Case-control                  | MOFFITT              | 396          | 95              | 491          |
| Prostate testing for cancer and Treatment   | Prospective                   | ProtecT              | 1119         | 815             | 1934         |
| Study of Epidemiology and Risk factors in Cancer Heredity   | Case-control                  | SEARCH               | 895          | 1014            | 1909         |
| U.K. Genetic Prostate Cancer Study and The Prostate Cancer Research Foundation Study (now PCUK)   | Case- control                 | UKGPCS               | 836          | 2349            | 3185         |
| Prostate Cancer study Medical University Sofia  | Case-control                  | PCMUS                | 147          | 66              | 213          |
| Retrospective Queensland Study (QLD) and the Prostate Cancer Supportive Care and Patient Outcomes Project (ProsCan)                             | Case-control                  | QLD                  | 155          | 82              | 237          |
|   |                               | Total                | 6207         | 6016            | 12223        |

**Supplementary table2 risk estimates of 168 candidate SNPs and prostate cancer risk**

| Genes                                       | Chr | SNP number | Base pair | Minor allele | OR*  | 95% C.I. |       | P-value |
|---|-----|------------|-----------|--------------|------|----------|-------|---------|
|   |     |            |           |              |      | lower    | upper |         |
| <i>FMR1:FMR1NB</i>                          | 0   | rs5904820  | 146872477 | A            | 1.03 | 0.98     | 1.09  | 0.299   |
| <i>FMR1-AS1:FMR1:FMR1NB</i>                 | 0   | rs5904817  | 146845982 | G            | 1.02 | 0.97     | 1.06  | 0.469   |
| <i>FMR1NB</i>                               | 0   | rs764631   | 146895941 | A            | 1.01 | 0.97     | 1.05  | 0.690   |
| <i>GHDC:STAT5B:STAT5A</i>                   | 17  | rs6503691  | 37647616  | A            | 0.90 | 0.82     | 0.99  | 0.036   |
| <i>GHITM</i>                                | 10  | rs11200843 | 85843687  | A            | 1.09 | 0.87     | 1.37  | 0.451   |
| <i>GHITM</i>                                | 10  | rs12774292 | 85843762  | G            | 1.00 | 0.94     | 1.06  | 0.981   |
| <i>GHITM:C10orf99</i>                       | 10  | rs12764717 | 85882437  | G            | 1.04 | 0.94     | 1.15  | 0.410   |
| <i>GHITM:C10orf99</i>                       | 10  | rs3814214  | 85888841  | A            | 1.00 | 0.94     | 1.07  | 0.877   |
| <i>GHITM:C10orf99</i>                       | 10  | rs4400739  | 85879485  | A            | 1.00 | 0.93     | 1.06  | 0.904   |
| <i>GHITM:C10orf99</i>                       | 10  | rs7071034  | 85882709  | G            | 1.01 | 0.94     | 1.07  | 0.870   |
| <i>GHITM:C10orf99:CDHR1</i>                 | 10  | rs12412411 | 85896082  | T            | 1.01 | 0.95     | 1.08  | 0.736   |
| <i>GHITM:C10orf99:CDHR1:LRIT2</i>           | 10  | rs11200904 | 85923899  | A            | 0.91 | 0.76     | 1.09  | 0.304   |
| <i>GHITM:C10orf99:CDHR1:LRIT2</i>           | 10  | rs11594887 | 85926668  | A            | 1.00 | 0.91     | 1.09  | 0.948   |
| <i>GHITM:C10orf99:CDHR1:LRIT2:LRIT1</i>     | 10  | rs11597918 | 85937265  | A            | 1.01 | 0.93     | 1.09  | 0.888   |
| <i>GHITM:C10orf99:CDHR1:LRIT2:LRIT1:RGR</i> | 10  | rs11200917 | 85948719  | G            | 0.99 | 0.92     | 1.07  | 0.830   |
| <i>GHITM:C10orf99:CDHR1:LRIT2:LRIT1:RGR</i> | 10  | rs17103203 | 85948198  | A            | 1.03 | 0.94     | 1.12  | 0.592   |
| <i>GHR</i>                                  | 5   | rs10755268 | 42420104  | C            | 1.04 | 0.96     | 1.12  | 0.363   |
| <i>GHR</i>                                  | 5   | rs11744988 | 42510453  | A            | 1.09 | 0.96     | 1.23  | 0.176   |
| <i>GHR</i>                                  | 5   | rs11955075 | 42616517  | C            | 1.01 | 0.94     | 1.08  | 0.877   |
| <i>GHR</i>                                  | 5   | rs12153009 | 42589636  | A            | 1.02 | 0.95     | 1.08  | 0.650   |
| <i>GHR</i>                                  | 5   | rs12521020 | 42601600  | A            | 0.99 | 0.92     | 1.06  | 0.729   |
| <i>GHR</i>                                  | 5   | rs13153388 | 42543090  | C            | 0.99 | 0.94     | 1.06  | 0.850   |
| <i>GHR</i>                                  | 5   | rs13171720 | 42478472  | A            | 0.94 | 0.87     | 1.01  | 0.098   |
| <i>GHR</i>                                  | 5   | rs13184352 | 42533379  | A            | 0.96 | 0.90     | 1.03  | 0.283   |
| <i>GHR</i>                                  | 5   | rs13188386 | 42509312  | A            | 0.98 | 0.91     | 1.05  | 0.525   |

| Genes                  | Chr | SNP number | Base pair | Minor allele | OR*  | 95% C.I. |       | P-value |
|------------------------|-----|------------|-----------|--------------|------|----------|-------|---------|
|                        |     |            |           |              |      | lower    | upper |         |
| <i>GHR</i>             | 5   | rs1509461  | 42443617  | G            | 1.01 | 0.95     | 1.07  | 0.833   |
| <i>GHR</i>             | 5   | rs28943882 | 42630868  | A            | 0.95 | 0.88     | 1.02  | 0.163   |
| <i>GHR</i>             | 5   | rs2940930  | 42441268  | A            | 1.03 | 0.97     | 1.09  | 0.389   |
| <i>GHR</i>             | 5   | rs2940944  | 42524899  | C            | 0.99 | 0.94     | 1.06  | 0.864   |
| <i>GHR</i>             | 5   | rs2972400  | 42461587  | A            | 1.03 | 0.96     | 1.12  | 0.396   |
| <i>GHR</i>             | 5   | rs2972418  | 42519450  | G            | 1.01 | 0.95     | 1.07  | 0.747   |
| <i>GHR</i>             | 5   | rs2972419  | 42519634  | A            | 1.04 | 0.96     | 1.12  | 0.323   |
| <i>GHR</i>             | 5   | rs33939197 | 42531815  | G            | 0.93 | 0.87     | 1.00  | 0.057   |
| <i>GHR</i>             | 5   | rs4130113  | 42550408  | A            | 1.01 | 0.95     | 1.07  | 0.837   |
| <i>GHR</i>             | 5   | rs4395642  | 42588188  | A            | 1.00 | 0.93     | 1.07  | 0.992   |
| <i>GHR</i>             | 5   | rs4610467  | 42559225  | A            | 0.94 | 0.79     | 1.12  | 0.471   |
| <i>GHR</i>             | 5   | rs4866941  | 42653249  | A            | 0.97 | 0.91     | 1.04  | 0.407   |
| <i>GHR</i>             | 5   | rs6179     | 42735801  | A            | 0.97 | 0.91     | 1.04  | 0.378   |
| <i>GHR</i>             | 5   | rs6873545  | 42667021  | G            | 0.97 | 0.91     | 1.04  | 0.399   |
| <i>GHR</i>             | 5   | rs6878512  | 42703628  | A            | 0.99 | 0.92     | 1.08  | 0.888   |
| <i>GHR</i>             | 5   | rs6887528  | 42659309  | A            | 1.03 | 0.91     | 1.16  | 0.679   |
| <i>GHR</i>             | 5   | rs6897530  | 42703694  | G            | 0.98 | 0.92     | 1.05  | 0.593   |
| <i>GHR</i>             | 5   | rs7701605  | 42686227  | C            | 0.99 | 0.92     | 1.06  | 0.720   |
| <i>GHR</i>             | 5   | rs7712701  | 42605947  | A            | 1.00 | 0.94     | 1.07  | 0.915   |
| <i>GHR</i>             | 5   | rs7721081  | 42686141  | A            | 0.99 | 0.92     | 1.08  | 0.854   |
| <i>GHR</i>             | 5   | rs7732059  | 42459229  | C            | 0.98 | 0.92     | 1.05  | 0.623   |
| <i>GHR</i>             | 5   | rs7735889  | 42597956  | G            | 0.99 | 0.92     | 1.06  | 0.741   |
| <i>GHR</i>             | 5   | rs7736209  | 42613316  | A            | 1.00 | 0.94     | 1.07  | 0.938   |
| <i>GHR:CCDC152</i>     | 5   | rs6180     | 42754996  | C            | 1.00 | 0.94     | 1.06  | 0.910   |
| <i>GHRHR</i>           | 7   | rs12537375 | 30987987  | G            | 1.02 | 0.93     | 1.12  | 0.690   |
| <i>GHRHR:ADCYAP1R1</i> | 7   | rs6462246  | 31016476  | A            | 1.06 | 0.97     | 1.15  | 0.173   |
| <i>GHRHR:ADCYAP1R1</i> | 7   | rs7796157  | 31019584  | A            | 1.00 | 0.91     | 1.11  | 0.937   |

| Genes                           | Chr | SNP number | Base pair | Minor allele | OR*  | 95% C.I. |       | P-value |
|---------------------------------|-----|------------|-----------|--------------|------|----------|-------|---------|
|                                 |     |            |           |              |      | lower    | upper |         |
| <i>GHRL:GHRLOS:SEC13:ATP2B2</i> | 3   | rs241508   | 10358996  | A            | 0.97 | 0.91     | 1.03  | 0.351   |
| <i>GHSR:TNFSF10</i>             | 3   | rs10513702 | 173669647 | A            | 1.05 | 0.99     | 1.12  | 0.084   |
| <i>GHSR:TNFSF10</i>             | 3   | rs13317803 | 173660458 | G            | 1.08 | 1.01     | 1.14  | 0.016   |
| <i>GHSR:TNFSF10</i>             | 3   | rs2100143  | 173685570 | G            | 0.97 | 0.92     | 1.03  | 0.360   |
| <i>GHSR:TNFSF10</i>             | 3   | rs6445063  | 173676326 | G            | 0.92 | 0.84     | 1.00  | 0.057   |
| <i>GHSR:TNFSF10</i>             | 3   | rs6777318  | 173688644 | A            | 0.99 | 0.92     | 1.05  | 0.654   |
| <i>GHSR:TNFSF10</i>             | 3   | rs9881073  | 173666094 | A            | 1.07 | 1.01     | 1.13  | 0.031   |
| <i>GHSR:TNFSF10</i>             | 3   | rs9881097  | 173668070 | A            | 1.07 | 1.00     | 1.13  | 0.035   |
| <i>IGF1</i>                     | 12  | rs1019731  | 101388555 | A            | 1.00 | 0.92     | 1.09  | 0.981   |
| <i>IGF1</i>                     | 12  | rs10735380 | 101368366 | G            | 1.01 | 0.95     | 1.08  | 0.709   |
| <i>IGF1</i>                     | 12  | rs10745940 | 101321326 | A            | 1.05 | 0.98     | 1.12  | 0.164   |
| <i>IGF1</i>                     | 12  | rs10778176 | 101387109 | A            | 1.02 | 0.96     | 1.09  | 0.500   |
| <i>IGF1</i>                     | 12  | rs10860860 | 101304963 | A            | 0.97 | 0.91     | 1.03  | 0.294   |
| <i>IGF1</i>                     | 12  | rs10860861 | 101309699 | G            | 1.00 | 0.94     | 1.06  | 0.903   |
| <i>IGF1</i>                     | 12  | rs10860862 | 101310202 | A            | 1.03 | 0.95     | 1.11  | 0.441   |
| <i>IGF1</i>                     | 12  | rs10860869 | 101389182 | T            | 1.02 | 0.96     | 1.09  | 0.500   |
| <i>IGF1</i>                     | 12  | rs11111262 | 101322307 | A            | 1.04 | 0.94     | 1.15  | 0.472   |
| <i>IGF1</i>                     | 12  | rs11111272 | 101351571 | C            | 1.04 | 0.98     | 1.12  | 0.188   |
| <i>IGF1</i>                     | 12  | rs11111293 | 101445426 | G            | 1.01 | 0.94     | 1.09  | 0.728   |
| <i>IGF1</i>                     | 12  | rs11831436 | 101377373 | A            | 1.19 | 1.01     | 1.41  | 0.040   |
| <i>IGF1</i>                     | 12  | rs12821878 | 101391797 | A            | 0.96 | 0.89     | 1.03  | 0.216   |
| <i>IGF1</i>                     | 12  | rs12833855 | 101352056 | A            | 1.03 | 0.96     | 1.10  | 0.360   |
| <i>IGF1</i>                     | 12  | rs1520220  | 101320652 | G            | 1.07 | 0.99     | 1.16  | 0.089   |
| <i>IGF1</i>                     | 12  | rs1549593  | 101320921 | A            | 1.01 | 0.93     | 1.09  | 0.886   |
| <i>IGF1</i>                     | 12  | rs17727841 | 101333760 | G            | 1.00 | 0.93     | 1.08  | 0.991   |
| <i>IGF1</i>                     | 12  | rs17797047 | 101429842 | C            | 0.97 | 0.88     | 1.08  | 0.630   |
| <i>IGF1</i>                     | 12  | rs17797222 | 101438076 | G            | 1.00 | 0.93     | 1.08  | 0.971   |

| Genes       | Chr | SNP number | Base pair | Minor allele | OR*  | 95% C.I. |       | P-value |
|-------------|-----|------------|-----------|--------------|------|----------|-------|---------|
|             |     |            |           |              |      | lower    | upper |         |
| <i>IGF1</i> | 12  | rs2033178  | 101371206 | A            | 1.09 | 0.96     | 1.23  | 0.185   |
| <i>IGF1</i> | 12  | rs2139573  | 101302904 | G            | 1.00 | 0.94     | 1.06  | 0.939   |
| <i>IGF1</i> | 12  | rs2162679  | 101395389 | G            | 1.12 | 1.03     | 1.22  | 0.007   |
| <i>IGF1</i> | 12  | rs2288378  | 101354138 | A            | 1.02 | 0.96     | 1.10  | 0.489   |
| <i>IGF1</i> | 12  | rs28399924 | 101320154 | A            | 0.98 | 0.90     | 1.06  | 0.544   |
| <i>IGF1</i> | 12  | rs2946834  | 101311944 | A            | 1.03 | 0.96     | 1.10  | 0.394   |
| <i>IGF1</i> | 12  | rs2971575  | 101305009 | G            | 1.01 | 0.95     | 1.07  | 0.839   |
| <i>IGF1</i> | 12  | rs35765    | 101405826 | A            | 1.02 | 0.93     | 1.12  | 0.662   |
| <i>IGF1</i> | 12  | rs35766    | 101404603 | G            | 1.10 | 1.01     | 1.19  | 0.026   |
| <i>IGF1</i> | 12  | rs35767    | 101399699 | A            | 1.12 | 1.03     | 1.22  | 0.006   |
| <i>IGF1</i> | 12  | rs4764697  | 101377302 | A            | 1.01 | 0.95     | 1.08  | 0.781   |
| <i>IGF1</i> | 12  | rs4764883  | 101330435 | G            | 1.05 | 0.98     | 1.12  | 0.147   |
| <i>IGF1</i> | 12  | rs5742612  | 101398994 | G            | 1.32 | 1.13     | 1.55  | 0.001   |
| <i>IGF1</i> | 12  | rs5742620  | 101393730 | A            | 1.16 | 0.97     | 1.38  | 0.102   |
| <i>IGF1</i> | 12  | rs5742629  | 101381393 | G            | 1.03 | 0.96     | 1.10  | 0.438   |
| <i>IGF1</i> | 12  | rs5742632  | 101380604 | G            | 1.00 | 0.93     | 1.07  | 0.948   |
| <i>IGF1</i> | 12  | rs5742652  | 101360196 | A            | 1.13 | 0.93     | 1.38  | 0.213   |
| <i>IGF1</i> | 12  | rs5742665  | 101347680 | C            | 0.95 | 0.87     | 1.04  | 0.244   |
| <i>IGF1</i> | 12  | rs5742671  | 101339888 | A            | 1.00 | 0.93     | 1.08  | 0.973   |
| <i>IGF1</i> | 12  | rs5742678  | 101338462 | G            | 1.03 | 0.97     | 1.10  | 0.355   |
| <i>IGF1</i> | 12  | rs5742692  | 101323728 | G            | 1.14 | 0.90     | 1.45  | 0.276   |
| <i>IGF1</i> | 12  | rs5742714  | 101313982 | G            | 1.04 | 0.94     | 1.15  | 0.469   |
| <i>IGF1</i> | 12  | rs6214     | 101317699 | A            | 0.98 | 0.92     | 1.04  | 0.527   |
| <i>IGF1</i> | 12  | rs6219     | 101314322 | A            | 1.04 | 0.94     | 1.15  | 0.470   |
| <i>IGF1</i> | 12  | rs6220     | 101318645 | G            | 1.05 | 0.99     | 1.13  | 0.116   |
| <i>IGF1</i> | 12  | rs6539035  | 101325065 | G            | 1.02 | 0.96     | 1.10  | 0.494   |
| <i>IGF1</i> | 12  | rs7136446  | 101362645 | G            | 1.00 | 0.94     | 1.06  | 0.965   |

| Genes        | Chr | SNP number | Base pair | Minor allele | OR*  | 95% C.I. |       | P-value |
|--------------|-----|------------|-----------|--------------|------|----------|-------|---------|
|              |     |            |           |              |      | lower    | upper |         |
| <i>IGF1</i>  | 12  | rs7956547  | 101382946 | G            | 1.01 | 0.95     | 1.09  | 0.674   |
| <i>IGF1</i>  | 12  | rs7971494  | 101378397 | A            | 0.94 | 0.80     | 1.11  | 0.468   |
| <i>IGF1</i>  | 12  | rs855211   | 101434940 | A            | 1.08 | 1.00     | 1.17  | 0.056   |
| <i>IGF1</i>  | 12  | rs9651925  | 101369674 | C            | 1.01 | 0.95     | 1.08  | 0.705   |
| <i>IGF1</i>  | 12  | rs972936   | 101349051 | A            | 1.03 | 0.96     | 1.10  | 0.359   |
| <i>IGF1</i>  | 12  | rs978458   | 101326369 | A            | 1.03 | 0.97     | 1.11  | 0.326   |
| <i>IGF1</i>  | 12  | rs9989002  | 101374353 | A            | 1.02 | 0.96     | 1.09  | 0.513   |
| <i>IGF1R</i> | 15  | rs10794486 | 97119058  | G            | 0.97 | 0.91     | 1.04  | 0.375   |
| <i>IGF1R</i> | 15  | rs11247367 | 97053799  | A            | 1.11 | 0.98     | 1.26  | 0.087   |
| <i>IGF1R</i> | 15  | rs11247378 | 97231968  | A            | 1.03 | 0.91     | 1.18  | 0.635   |
| <i>IGF1R</i> | 15  | rs11630647 | 97058470  | A            | 1.08 | 1.01     | 1.15  | 0.035   |
| <i>IGF1R</i> | 15  | rs11632057 | 97059247  | A            | 0.92 | 0.81     | 1.06  | 0.255   |
| <i>IGF1R</i> | 15  | rs11856426 | 96992523  | G            | 0.97 | 0.92     | 1.03  | 0.361   |
| <i>IGF1R</i> | 15  | rs12050484 | 97172805  | A            | 1.00 | 0.94     | 1.06  | 0.886   |
| <i>IGF1R</i> | 15  | rs12908437 | 97104898  | A            | 0.97 | 0.91     | 1.03  | 0.327   |
| <i>IGF1R</i> | 15  | rs12910200 | 97262992  | A            | 1.05 | 0.98     | 1.12  | 0.138   |
| <i>IGF1R</i> | 15  | rs1319869  | 97030008  | C            | 0.98 | 0.89     | 1.08  | 0.663   |
| <i>IGF1R</i> | 15  | rs13329348 | 97021743  | G            | 1.00 | 0.88     | 1.12  | 0.940   |
| <i>IGF1R</i> | 15  | rs13329408 | 97023676  | A            | 1.03 | 0.95     | 1.12  | 0.524   |
| <i>IGF1R</i> | 15  | rs1357112  | 97250899  | G            | 1.06 | 1.00     | 1.13  | 0.054   |
| <i>IGF1R</i> | 15  | rs1513643  | 97144284  | G            | 0.98 | 0.93     | 1.04  | 0.576   |
| <i>IGF1R</i> | 15  | rs1521481  | 97231946  | C            | 1.00 | 0.94     | 1.06  | 0.929   |
| <i>IGF1R</i> | 15  | rs1962589  | 97154292  | G            | 1.04 | 0.95     | 1.14  | 0.385   |
| <i>IGF1R</i> | 15  | rs2175795  | 97130377  | A            | 0.98 | 0.91     | 1.04  | 0.487   |
| <i>IGF1R</i> | 15  | rs2684761  | 97181893  | A            | 0.98 | 0.92     | 1.04  | 0.444   |
| <i>IGF1R</i> | 15  | rs2684781  | 97227071  | G            | 1.00 | 0.93     | 1.07  | 0.919   |
| <i>IGF1R</i> | 15  | rs2715417  | 97270570  | A            | 0.96 | 0.91     | 1.02  | 0.226   |

| Genes                | Chr | SNP number | Base pair | Minor allele | OR*  | 95% C.I. |       | P-value |
|----------------------|-----|------------|-----------|--------------|------|----------|-------|---------|
|                      |     |            |           |              |      | lower    | upper |         |
| <i>IGF1R</i>         | 15  | rs2871864  | 96979816  | C            | 1.11 | 1.01     | 1.22  | 0.031   |
| <i>IGF1R</i>         | 15  | rs3743259  | 97260684  | G            | 1.00 | 0.94     | 1.07  | 0.913   |
| <i>IGF1R</i>         | 15  | rs3743260  | 97260815  | A            | 1.11 | 0.91     | 1.35  | 0.292   |
| <i>IGF1R</i>         | 15  | rs3784606  | 97276004  | G            | 0.94 | 0.88     | 1.01  | 0.110   |
| <i>IGF1R</i>         | 15  | rs4305005  | 97032621  | G            | 0.95 | 0.86     | 1.05  | 0.300   |
| <i>IGF1R</i>         | 15  | rs4965425  | 96999186  | A            | 0.98 | 0.93     | 1.04  | 0.578   |
| <i>IGF1R</i>         | 15  | rs4966013  | 97062907  | G            | 1.06 | 1.00     | 1.13  | 0.062   |
| <i>IGF1R</i>         | 15  | rs6598534  | 96960825  | A            | 1.00 | 0.94     | 1.06  | 0.964   |
| <i>IGF1R</i>         | 15  | rs7168671  | 97272485  | A            | 0.98 | 0.90     | 1.06  | 0.567   |
| <i>IGF1R</i>         | 15  | rs7169544  | 97275275  | A            | 1.02 | 0.96     | 1.09  | 0.439   |
| <i>IGF1R</i>         | 15  | rs7403473  | 96983696  | G            | 0.99 | 0.93     | 1.06  | 0.847   |
| <i>IGF1R</i>         | 15  | rs8027767  | 97115026  | C            | 0.98 | 0.92     | 1.04  | 0.515   |
| <i>IGF1R</i>         | 15  | rs8030950  | 97221544  | A            | 1.00 | 0.93     | 1.06  | 0.893   |
| <i>IGF1R</i>         | 15  | rs8037002  | 97263686  | C            | 1.02 | 0.96     | 1.08  | 0.576   |
| <i>IGF1R</i>         | 15  | rs8041953  | 97179824  | G            | 1.03 | 0.94     | 1.13  | 0.518   |
| <i>IGF1R</i>         | 15  | rs867431   | 97267206  | G            | 0.99 | 0.93     | 1.05  | 0.769   |
| <i>IGF1R</i>         | 15  | rs883149   | 97267224  | T            | 1.00 | 0.93     | 1.07  | 0.924   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs12440962 | 97317587  | A            | 1.00 | 0.94     | 1.08  | 0.928   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs2229765  | 97295748  | A            | 1.08 | 1.02     | 1.15  | 0.013   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs2593053  | 97317779  | A            | 0.98 | 0.92     | 1.04  | 0.561   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs2654976  | 97367760  | G            | 1.00 | 0.93     | 1.08  | 0.928   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs2684787  | 97322585  | A            | 1.01 | 0.95     | 1.09  | 0.707   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs2684805  | 97283608  | G            | 0.96 | 0.87     | 1.07  | 0.480   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs28674628 | 97323351  | G            | 1.03 | 0.83     | 1.27  | 0.813   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs3743253  | 97317597  | A            | 1.02 | 0.95     | 1.10  | 0.626   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs3743262  | 97282996  | A            | 0.96 | 0.83     | 1.11  | 0.600   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs702497   | 97319104  | A            | 1.01 | 0.94     | 1.08  | 0.858   |

| Genes                | Chr | SNP number | Base pair | Minor allele | OR*  | 95% C.I. |       | P-value |
|----------------------|-----|------------|-----------|--------------|------|----------|-------|---------|
|                      |     |            |           |              |      | lower    | upper |         |
| <i>IGF1R:PGPEP1L</i> | 15  | rs7167580  | 97312731  | A            | 1.01 | 0.95     | 1.09  | 0.691   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs8024849  | 97368405  | G            | 1.01 | 0.93     | 1.10  | 0.829   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs9672254  | 97315608  | A            | 1.03 | 0.97     | 1.09  | 0.390   |
| <i>IGF1R:PGPEP1L</i> | 15  | rs9920651  | 97280163  | A            | 1.07 | 0.99     | 1.15  | 0.073   |
| <i>SHOX2</i>         | 3   | rs3107582  | 159260534 | A            | 1.01 | 0.92     | 1.10  | 0.901   |
| <i>SHOX2:RSRC1</i>   | 3   | rs1608114  | 159298074 | G            | 1.01 | 0.93     | 1.10  | 0.823   |
| <i>SHOX2:RSRC1</i>   | 3   | rs2686543  | 159265913 | A            | 1.00 | 0.92     | 1.09  | 0.981   |
| <i>SHOX2:RSRC1</i>   | 3   | rs6803630  | 159319759 | A            | 1.01 | 0.95     | 1.07  | 0.838   |

Chr-chromosome, OR-odds ratio

\* adjusted for age, family history of prostate cancer, study sites, Principal Components for European ancestry