Supplementary Table 1. Scale for quality assessment of molecular association studies

Criterion	Score
Source of case	
Selected from population	2
Selected from hospital	1
Not described	0
Source of control	
Population-based	3
Blood donors or volunteers	2
Hospital-based	1
Not described	0
Ascertainment of osteoporosis	
WHO	2
Diagnosis of osteoporosis by patient medical record	1
Not described	0
Ascertainment of control	
Controls were tested to screen out	2
Controls were subjects who did not report osteoporosis, no objective testing	1
Not described	0
Matching	
Controls matched with cases by age and sex	2
Controls matched with cases only by age or sex	1
Not matched or not described	0
Genotyping examination	
Genotyping done blindly and quality control	2
Only genotyping done blindly or quality control	1
Unblinded and without quality control	0
Specimens used for determining genotypes	
Blood cells or normal tissues	1
Tumor tissues or exfoliated cells of tissue	0
HWE	
HWE in the control group	1
Hardy-Weinberg disequilibrium in the control group	0
Association assessment	
Assess association between genotypes and osteoporosis with appropriate statistics and adjustment for	2
confounders	
Assess association between genotypes and osteoporosis with appropriate statistics without adjustment for	1
confounders	
Inappropriate statistics used	0
Total sample size	
>500	3
200-500	2
<200	1
HWE: Hardy-Weinberg equilibrium	