

Osteogenesis imperfecta en gerelateerde aandoeningen v3.0

(41 genen, incl. 7 core-NL genen)

Gene	% covered > 30x	Associated phenotype description and OMIM ID
ALPL	>99	Hypophosphatasia adult, 14630 Hypophosphatasia childhood, 24151 Hypophosphatasia infantile, 24150 Odontohypophosphatasia, 14630
ANOS	>99	Gnathodiaphyseal dysplasia, 166260 Miyoshi muscular dystrophy 3, 613319 Muscular dystrophy, limb-girdle, autosomal recessive 12, 611307
B3GALT6	>80	Ehlers-Danlos syndrome, progeroid type, 2, 615349 Spondyloepimetaphyseal dysplasia with joint laxity, type 1, with or without fractures, 271640
B3GAT3	>99	Multiple joint dislocations, short stature, craniofacial dysmorphism, with or without congenital heart defects, 245600
B4GALT7	>99	Ehlers-Danlos syndrome with short stature and limb anomalies, 130070
BMP1	>99	Osteogenesis imperfecta, type XIII, 614856
CCDC134	>99	no OMIM phenotype
CHST3	>99	Spondyloepiphyseal dysplasia with congenital joint dislocations, 143095
COL1A1	>99	Caffey disease, 114000 Ehlers-Danlos syndrome, classic, 130000 Ehlers-Danlos syndrome, type VIIA, 130060 Osteogenesis imperfecta, type I, 166200 Osteogenesis imperfecta, type II, 166210 Osteogenesis imperfecta, type III, 259420 Osteogenesis imperfecta, type IV, 166220 {Bone mineral density variation QTL, osteoporosis}, 166710
COL1A2	>99	Ehlers-Danlos syndrome, cardiac valvular form, 225320 Ehlers-Danlos syndrome, type VIIB, 130060 Osteogenesis imperfecta, type II, 166210 Osteogenesis imperfecta, type III, 259420 Osteogenesis imperfecta, type IV, 166220 {Osteoporosis, postmenopausal}, 166710
CREB3L1	>99	Osteogenesis imperfecta, type XVI, 616229: not associated with the gene in OMIM, but with a contiguous gene deletion including CREB3L1
CRTAP	>99	Osteogenesis imperfecta, type VII, 610682
FKBP10	>99	Bruck syndrome 1, 259450 Osteogenesis imperfecta, type XI, 610968
GORAB	>99	Geroderma osteodysplasticum, 231070
IFITM5	>99	Osteogenesis imperfecta, type V, 610967
KDELR2	>99	Osteogenesis imperfecta 21, 619131
LIFR	>99	Stuve-Wiedemann syndrome/Schwartz-Jampel type 2 syndrome, 601559
LRP5	>99	Exudative vitreoretinopathy 4, 601813 Hyperostosis, endosteal, 144750 Osteopetrosis, autosomal dominant 1, 607634 Osteoporosis-pseudoglioma syndrome, 259770 Osteosclerosis, 144750 van Buchem disease, type 2, 607636 [Bone mineral density variability 1], 601884 {Osteoporosis}, 166710
MBTPS2	>99	?Olmsted syndrome, X-linked, 300918 IFAP syndrome with or without BRESHECK syndrome, 308205 Keratosis follicularis spinulosa decalvans, X-linked, 308800 Osteogenesis imperfecta, type XIX, 301014
MESD	>99	Osteogenesis imperfecta, type XX, 618644
NBAS	>99	Infantile liver failure syndrome 2, 616483 Short stature, optic nerve atrophy, and Pelger-Huet anomaly, 614800
P3H1	>99	Osteogenesis imperfecta, type VIII, 610915

P4HA1	>99	no OMIM phenotype
P4HB	>99	Cole-Carpenter syndrome 1, 112240
PLOD2	>99	Bruck syndrome 2, 609220
PLOD3	>99	Lysyl hydroxylase 3 deficiency, 612394
PLS3	>99	Bone mineral density QTL18, osteoporosis, 300910
PPIB	>99	Osteogenesis imperfecta, type IX, 259440
SEC24D	>99	Cole-Carpenter syndrome 2, 616294
SERPINF1	>99	Osteogenesis imperfecta, type VI, 613982
SERPINH1	>99	?Osteogenesis imperfecta, type X, 613848 {Preterm premature rupture of the membranes, susceptibility to}, 610504
SGMS2	>99	Calvarial doughnut lesions with bone fragility with or without spondylometaphyseal dysplasia, 126550
SLC10A7	>99	Short stature, amelogenesis imperfecta, and skeletal dysplasia with scoliosis, 618363
SP7	>99	?Osteogenesis imperfecta, type XII, 613849
SPARC	>99	Osteogenesis imperfecta, type XVII, 616507
TAPT1	>99	Osteochondrodysplasia, complex lethal, Symoens-Barnes-Gistelinck type, 616897
TENT5A (=FAM46A)	>99	Osteogenesis imperfecta, type XVIII, 617952
TMEM38B	>99	Osteogenesis imperfecta, type XIV, 615066
WNT1	>99	Osteogenesis imperfecta, type XV, 615220 {Osteoporosis, early-onset, susceptibility to, autosomal dominant}, 615221
XYLT1	>99	Desbuquois dysplasia 2, 615777
XYLT2	>99	Spondyloocular syndrome, 605822

Gene symbols used follow HGCN guidelines Genomics 79(4):464-470 (2002) updated February 2014

OMIM release used for OMIM disease identifiers and descriptions : June 30th, 2015

“No OMIM phenotype” signifies a gene without a current OMIM association

OMIM phenotype descriptions between {} signify risk factors