

Table S1. Members of the matrix metalloproteinase (MMP) family and their tissue inhibitors (TIMPs).

PROTEIN	GENE	MW [Da]	Chromosomal localization	CATALYTIC ACTIVITY	Inhibitor
COLLAGENASES					
Interstitial collagenase, Collagenase 1, MMP1 (EC:3.4.24.7)	MMP1	54007	11q22-q23	Collagen (I, II, III, VII, X), casein, entactin, laminin, pro-MMP1, -2, -9, alpha-macroglobulins and serpins	TIMP1, TIMP2, TIMP3, TIMP4
Neutrophil collagenase, Collagenase 2, MMP8 (EC:3.4.24.34)	MMP8 CLG1	53412	11q21-q22	fibrillar type I, II, and III collagens, interstitial collagens	TIMP1, TIMP2
Collagenase 3, MMP13 (EC:3.4.24.-)	MMP13	53820	11q22.3	fibrillar collagen (I, II, III, IV, X and XIV), fibronectin, TNC and ACAN, TGFB1, CCN2, gelatin, aggrecan, fibronectin, casein, laminin, perlecan, plasminogen activator 2, pro-MMP9, pro-MMP13, SDF-1, tenascin	TIMP1, TIMP2, TIMP3
GELATINASES					
72 kDa type IV collagenase, MMP2, Gelatinase A (EC:3.4.24.24)	MMP2 CLG4A	73882	16q13	Gelatin, collagen (IV, V, VII, X), elastin, fibronectin, KISS, GSK3beta	histatin-5, TIMP1, TIMP2, TIMP3, TIMP4
Matrix metalloproteinase-9, MMP9, Gelatinase B, GELB (EC:3.4.24.35)	MMP9 CLG4B	78458	16q13	Gelatin, collagen (IV–VI, X), elastin, fibronectin, KiSS1, NINJ1	TIMP1, TIMP2, TIMP3, TIMP4
STROMELYSINS					
Stromelysin-1, MMP3, Transin-1 (EC:3.4.24.17)	MMP3 STMY1	53977	11q23	fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans	TIMP1, TIMP2, TIMP4
Stromelysin-2, Transin-2, MMP10 (EC:3.4.24.22)	MMP10 STMY2	54150	11q22.3-q23	Collagens (I, III–V, IX and X), gelatin, casein, aggrecan, elastin, MMP-1,8	TIMP1, TIMP2
Stromelysin-3, ST3, STL3, MMP11 (EC:3.4.24.-)	MMP11 STMY3	54589	22q11.2	Elastin, gelatin, collagen I, IV, fibronectin, laminin, vitronectin, proteoglycan, B chain of insulin	TIMP1, TIMP3
MEMBRANE-TYPE MMPs					
Matrix metalloproteinase-14, MMP14, Membrane Type 1-Matrix Metalloproteinase, MT1-MMP, MTMMP1 (EC:3.4.24.80)	MMP14	65894	14q11q-12	Collagen, progelatinase A, PTK7, MMP15, ADGRB1, collagenase 3, aggrecan	TIMP2, TIMP3

Matrix metalloproteinase-15, MMP15, Membrane Type 2-Matrix Metalloproteinase, MT2-MMP, MTMMP2 (EC:3.4.24.-)	MMP15	75806	16q13	progelatinase A	TIMP2, TIMP3
Matrix metalloproteinase-16, MMP16, Membrane Type 3-Matrix Metalloproteinase, MT3-MMP, MTMMP3 (EC:3.4.24.-)	MMP16 C8orf57 MMPX2	69521	8q21	collagen type III and fibronectin, progelatinase A	TIMP1, TIMP2
Matrix metalloproteinase-17, MMP17, Membrane Type 4-Matrix Metalloproteinase, MT4-MMP, MTMMP4 (EC:3.4.24.-)	MMP17 MT4MMP	66652	12q24.3	pro-TNF-alpha, progelatinase A, fibrin, pro-TNF-alpha	
Matrix metalloproteinase-24, MMP24, Membrane-type-5 matrix metalloproteinase, MT5-MMP, MTMMP5 (EC:3.4.24.-)	MMP24 MT5MMP	62553	20q11.2	N-cadherin, fibronectin, dermatan sulfate and chondroitin sulfate proteoglycans, progelatinase A	
Matrix metalloproteinase-25, MMP25, Membrane-type-6 matrix metalloproteinase, MT6-MMP, MTMMP6 (EC:3.4.24.-)	MMP25 MMP20 MMPL1 MT6MMP	58938	16p13.3	progelatinase A	
MATRILYSINS					
Matrilysin, Matrin, Matrix metalloproteinase-7, MMP7, Pump-1 protease, Uterine metalloproteinase (EC:3.4.24.23)	MMP7 MPSL1 PUMP1	24144	11q21-q22	casein, gelatins of types I, III, IV, and V, and fibronectin. Procollagenase, insulin	TIMP1, TIMP2, TIMP3, TIMP4
Matrix metalloproteinase-26, MMP26, Endometase, Matrilysin-2 (EC:3.4.24.-)	MMP26	29708	11p15	collagen type IV, fibronectin, fibrinogen, beta-casein, type I gelatin and alpha-1 proteinase inhibitor, progelatinase B	
METALLOELASTASES					
Macrophage metalloelastase, macrophage elastase, metalloproteinase-12, MMP12 (EC:3.4.24.65)	MMP12 HME	54002	11q22.2-q22.3	Gelatin, collagen IV, pro-MMP9, elastin, insulin	TIMP1
ENAMELYSIN					

Matrix metalloproteinase-20, MMP20, Enamel metalloproteinase, Enamelysin, (EC:3.4.24.-)	MMP20	62553	11q22.3	aggrecan and the cartilage oligomeric matrix protein (COMP)	
Other MMPs					
Matrix metalloproteinase-19, MMP19, Matrix metalloproteinase RASI, Matrix metalloproteinase-18, MMP18 (EC:3.4.24.-)	MMP19 MMP18 RASI	57356	12q14	collagen type IV, laminin, nidogen, nasrin-C isoform, fibronectin, and type I gelatin, aggrecan and cartilage oligomeric matrix protein	TIMP2
Matrix metalloproteinase-21, MMP21 (EC:3.4.24.-)	MMP21	65042	10q26.3	alpha-1-antitrypsin	
Matrix Metalloproteinase 23A, Matrix Metalloproteinase 22, MMP22, Femalysin, MIFR-1, Matrix metalloproteinase-21, MMP21 (Pseudogene)	MMP21/P MMP22 MMP23A MMP23B				TIMP2
Matrix metalloproteinase-27, MMP27 (EC:3.4.24.-)	MMP27 UNQ2503/PR O5992	59025	11q24	fibronectin, laminin, gelatins and/or collagens	
Matrix metalloproteinase-28, MMP28, Epilysin (EC:3.4.24.-)	MMP28 MMP25 UNQ1893/PR O4339	58938	17q21.1	casein	