R186Q,K188Q; K45N,V47T, F57N, H78N,Q80T, K94N,E96T, Q126N,; K45N,V47T, F57N, H78N,Q80T, Q126N, R138T; K45N,V47T, F57N, H78N,Q80T, R138T, R186Q,K188Q; K45N,V47T, F57N, H78N,Q80T, K94N,E96T, D110N,K112T, R186Q,K188Q; K50N,V52T, K94N,E96T, H78N,Q80T, R138T; K50N,V52T, K94N,E96T, H78N,Q80T, R138T, R186Q,K188Q; K45E, F57N, Q126N, R138T, R186Q,K188Q; K45N,V47T, F57N, Q126N, R138T, R186Q,K188Q; K45N,V47T, F57N, H78N,Q80T, R186Q,K188Q; K45S, F57N, H78N,Q80T, Q126N, R138T, R186Q,K188Q; K45S, F57N, H78N,Q80T, K94N,E96T, R138T, R186Q,K188Q; K50N,V52T, K94N,E96T, H78N,Q80T, R138T,; K45N,V47T, F57N, K94N,E96T, D110N,K112T, R186Q,K188Q; and K45S, F57N, H78N,Q80T, K94N,E96T, R138T; K45N,V47T, F57N, K94N,E96T

11. An isolated nucleic acid that encodes a TIMP-3 mutein according to any one of claims 1 - 10.

12. An expression vector comprising the isolated nucleic acid of claim 11.

13. An isolated host cell transformed or transfected with the expression vector of claim 12.

14. A method of producing a recombinant TIMP-3 mutein comprising culturing the transformed or transfected host cell of claim 13 under conditions promoting expression of the TIMP-3 mutein, and recovering the TIMP-3 mutein.

15. A composition comprising the TIMP-3 mutein of any one of claims 1 - 10 and a physiologically acceptable diluent, excipient or carrier.

16. ~~A~~ Use of a composition according to claim 15 in the manufacture of a medicament for ~~method of~~ treating a condition in which matrix metalloproteases (MMPs) and/or other proteinases that are inhibited or inhibitable by TIMP-3 play a causative or exacerbating role~~, comprising administering to an individual afflicted with such a condition, an amount of composition according to claim 15 sufficient to treat the condition~~.

17. The ~~method~~ use of claim 16 wherein the condition is selected from the group consisting of inflammatory conditions, osteoarthritis, myocardial ischemia, reperfusion injury, and progression to congestive heart failure.

18. The use~~method~~ of claim 16, wherein the condition is selected from the group consisting of asthma, chronic obstructive pulmonary disease (COPD), and idiopathic pulmonary fibrosis (IPF), inflammatory bowel disease (for example, ulcerative colitis, Crohn's

disease, and celiac disease), psoriases, myocarditis including viral myocarditis, inflammation related to atherosclerosis, and arthritic conditions including rheumatoid arthritis and psoriatic arthritis.

19. The use~~method~~ of claim 16, wherein the condition is selected from the group consisting of dystrophic epidermolysis bullosa, osteoarthritis, pseudogout, rheumatoid arthritis including juvenile rheumatoid arthritis, ankylosing spondylitis, periodontal disease, ulceration including corneal, epidermal, or gastric ulceration, wound healing after surgery, restenosis, emphysema, Paget's disease of bone, osteoporosis, scleroderma, pressure atrophy of bone or tissues as in bedsores, cholesteatoma, abnormal wound healing, pauciarticular rheumatoid arthritis, polyarticular rheumatoid arthritis, systemic onset rheumatoid arthritis, ankylosing spondylitis, enteropathic arthritis, reactive arthritis, Reiter's Syndrome, SEA Syndrome (Seronegativity, Enthesopathy, Arthropathy Syndrome), dermatomyositis, psoriatic arthritis, scleroderma, systemic lupus erythematosus, vasculitis, myolitis, polymyolitis, dermatomyolitis, osteoarthritis, polyarteritis nodossa, Wegener's granulomatosis, arteritis, polymyalgia rheumatica, sarcoidosis, sclerosis, primary biliary sclerosis, sclerosing cholangitis, Sjogren's syndrome, psoriasis, plaque psoriasis, guttate psoriasis, inverse psoriasis, pustular psoriasis, erythrodermic psoriasis, dermatitis, atopic dermatitis, atherosclerosis, lupus, Still's disease, Systemic Lupus Erythematosus (SLE), myasthenia gravis, inflammatory bowel disease, ulcerative colitis, Crohn's disease, Celiac disease (nontropical Sprue), enteropathy associated with seronegative arthropathies, microscopic or collagenous colitis, eosinophilic gastroenteritis, or pouchitis resulting after proctocolectomy and ileoanal anastomosis, pancreatitis, insulin-dependent diabetes mellitus, mastitis, cholecystitis, cholangitis, pericholangitis, multiple sclerosis (MS), asthma (including extrinsic and intrinsic asthma as well as related chronic inflammatory conditions, or hyperresponsiveness, of the airways), chronic obstructive pulmonary disease (COPD. i.e., chronic bronchitis, emphysema), Acute Respiratory Disorder Syndrome (ARDS), respiratory distress syndrome, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, acute lung injury, allergic bronchopulmonary aspergillosis, hypersensitivity pneumonia, eosinophilic pneumonia, bronchitis, allergic bronchitis bronchiectasis, tuberculosis, hypersensitivity pneumonitis, occupational asthma, asthma-like disorders, sarcoid, reactive airway disease (or dysfunction) syndrome, byssinosis, interstitial lung disease, hyper-eosinophilic syndrome, rhinitis, sinusitis, and parasitic