

## Role to Use-Case Mapping, as of February 2007

<b>Roles present in 07.02C baseline</b>	<b>Use Case For Role</b>
Allele_Absent_From_Wild-type_Chromosomal_Location	Created for internal modeling purposes.
Allele_Associated_With_Disease	Created for internal modeling purposes.
Allele_Ceases_Function_In_Pathway	Created for internal modeling purposes.
Allele_Has_Abnormality	Created for internal modeling purposes.
Allele_Has_Activity	Created for internal modeling purposes.
Allele_In_Chromosomal_Location	Created for internal modeling purposes.
Allele_Is_Cancer_Related_Type	Created for internal modeling purposes.
Allele_Not_Associated_With_Abnormality	Created for internal modeling purposes.
Allele_Not_Associated_With_Disease	Created for internal modeling purposes.
Allele_Plays_Altered_Role_In_Process	Created for internal modeling purposes.
Allele_Plays_Role_In_Metabolism_Of_Chemical_Or_Drug	Created for internal modeling purposes.
Anatomic_Structure_Has_Location	Created for internal modeling purposes.
Anatomic_Structure_Is_Physical_Part_Of	Created for internal modeling purposes.
Biological_Process_Has_Associated_Location	Created for internal modeling purposes.
Biological_Process_Has_Initiator_Chemical_Or_Drug	Created for internal modeling purposes.
Biological_Process_Has_Initiator_Process	Created for internal modeling purposes.
Biological_Process_Has_Result_Anatomy	Created for internal modeling purposes.
Biological_Process_Has_Result_Biological_Process	Created for internal modeling purposes.
Biological_Process_Has_Result_Chemical_Or_Drug	Created for internal modeling purposes.
Biological_Process_Is_Part_Of_Process	Created for internal modeling purposes.
Chemical_Or_Drug_Affects_Abnormal_Cell	Use case 12 - Categorize Drug Concepts by Molecular Targets
Chemical_Or_Drug_Affects_Cell_Type_Or_Tissue	Created for internal modeling purposes.
Chemical_Or_Drug_Affects_Gene_Product	Use case 4 - Gene organization, expression of cancer functions Use case 5 - Gene analysis support Use case 12 - Categorize Drug Concepts by Molecular Targets
Chemical_Or_Drug_FDA_Approved_For_Disease	Created for internal modeling purposes.
Chemical_Or_Drug_Has_Accepted_Therapeutic_Use_For	Created for internal modeling purposes.
Chemical_Or_Drug_Has_Mechanism_Of_Action	Use case 12 - Categorize Drug Concepts by Molecular Targets
Chemical_Or_Drug_Has_Physiologic_Effect	Use case 12 - Categorize Drug Concepts by Molecular Targets
Chemical_Or_Drug_Has_Study_Therapeutic_Use_For	Created for internal modeling purposes.
Chemical_Or_Drug_Is_Metabolized_By_Enzyme	Partial use case tied in with VA collaboration for VA's interest in prescription drug metabolism.
Chemical_Or_Drug_Plays_Role_In_Biological_Process	Created for internal modeling purposes.
Chemotherapy_Regimen_Has_Component	Created for internal modeling purposes.
Conceptual_Part_Of	Created for internal modeling purposes.
Disease_Excludes_Abnormal_Cell	Created for internal modeling purposes.
Disease_Excludes_Cytogenetic_Abnormality	Created for internal modeling purposes.
Disease_Excludes_Finding	Created for internal modeling purposes.
Disease_Excludes_Metastatic_Anatomic_Site	Created for internal modeling purposes.
Disease_Excludes_Molecular_Abnormality	Created for internal modeling purposes.

Disease_Excludes_Normal_Cell_Origin	Created for internal modeling purposes.
Disease_Excludes_Normal_Tissue_Origin	Created for internal modeling purposes.
Disease_Excludes_Primary_Anatomic_Site	Created for internal modeling purposes.
Disease_Has_Abnormal_Cell	Created for internal modeling purposes.
Disease_Has_Associated_Anatomic_Site	Created for internal modeling purposes.
Disease_Has_Associated_Disease	Created for internal modeling purposes.
Disease_Has_Cytogenetic_Abnormality	Created for internal modeling purposes.
Disease_Has_Finding	Created for internal modeling purposes.
Disease_Has_Metastatic_Anatomic_Site	Created for internal modeling purposes.
Disease_Has_Molecular_Abnormality	Use case 11 - Disease Concept Relationship to Molecular Targets
Disease_Has_Normal_Cell_Origin	Created for internal modeling purposes.
Disease_Has_Normal_Tissue_Origin	Created for internal modeling purposes.
Disease_Has_Primary_Anatomic_Site	Created for internal modeling purposes.
Disease_Is_Grade	Created for internal modeling purposes.
Disease_Is_Stage	Created for internal modeling purposes.
Disease_May_Have_Abnormal_Cell	Created for internal modeling purposes.
Disease_May_Have_Associated_Disease	Created for internal modeling purposes.
Disease_May_Have_Cytogenetic_Abnormality	Created for internal modeling purposes.
Disease_May_Have_Finding	Created for internal modeling purposes.
Disease_May_Have_Molecular_Abnormality	Use case 11 - Disease Concept Relationship to Molecular Targets
Disease_May_Have_Normal_Cell_Origin	Created for internal modeling purposes.
Disease_May_Have_Normal_Tissue_Origin	Created for internal modeling purposes.
EO_Anatomic_Structure_Is_Physical_Part_Of	Use case 9 - Terminology for Cancer Models Database (MMHCC)
EO_Derived_By_Technique	Created for internal modeling purposes.
EO_Develops_Disease	Created for internal modeling purposes.
EO_Disease_Has_Associated_Cell_Type	Use case 9 - Terminology for Cancer Models Database (MMHCC)
EO_Disease_Has_Associated_EO_Anatomy	Use case 9 - Terminology for Cancer Models Database (MMHCC)
EO_Disease_Has_Property_Or_Attribute	Use case 9 - Terminology for Cancer Models Database (MMHCC)
EO_Disease_Maps_To_Human_Disease	Use case 9 - Terminology for Cancer Models Database (MMHCC)
EO_Disease_Metastatic_To_EO_Anatomy	Created for internal modeling purposes.
EO_Models_Human_Disease	Created for internal modeling purposes.
Gene_Associated_With_Disease	Use case 1 - Gene/Protein/Biological Process/Molecular Function Modeling in NCI Thesaurus Use case 2 - Scope of Gene Coverage Use case 3 - Gene anomaly in cancer disease
Gene_Found_In_Organism	Use case 2 - Scope of Gene Coverage Use case 3 - Gene anomaly in cancer disease Use case 4 - Gene organization, expression of cancer functions Use case 6 - Search for Gene Expression Data (GU 8/27/03)
Gene_Has_Abnormality	Use case 1 - Gene/Protein/Biological Process/Molecular Function Modeling in NCI Thesaurus

	Use case 2 - Scope of Gene Coverage Use case 3 - Gene anomaly in cancer disease Use case 4 - Gene organization, expression of cancer functions
Gene_Has_Physical_Location	Created for internal modeling purposes.
Gene_In_Chromosomal_Location	Created for internal modeling purposes.
Gene_Is_Biomarker_Of	Use case 1 - Gene/Protein/Biological Process/Molecular Function Modeling in NCI Thesaurus Use case 2 - Scope of Gene Coverage Use case 3 - Gene anomaly in cancer disease
Gene_Is_Biomarker_Type	Created for internal modeling purposes.
Gene_Is_Element_In_Pathway	Use case 5 - Gene analysis support
Gene_Plays_Role_In_Process	Use case 1 - Gene/Protein/Biological Process/Molecular Function Modeling in NCI Thesaurus Use case 2 - Scope of Gene Coverage Use case 3 - Gene anomaly in cancer disease Use case 4 - Gene organization, expression of cancer functions Use case 5 - Gene analysis support
Gene_Product_Encoded_By_Gene	Use case 1 - Gene/Protein/Biological Process/Molecular Function Modeling in NCI Thesaurus
Gene_Product_Expressed_In_Tissue	Created for internal modeling purposes.
Gene_Product_Has_Abnormality	Created for internal modeling purposes.
Gene_Product_Has_Associated_Anatomy	Created for internal modeling purposes.
Gene_Product_Has_Biochemical_Function	Use case 4 - Gene organization, expression of cancer functions Use case 5 - Gene analysis support
Gene_Product_Has_Chemical_Classification	Created for internal modeling purposes.
Gene_Product_Has_Malfunction_Type	Use case 1 - Gene/Protein/Biological Process/Molecular Function Modeling in NCI Thesaurus Use case 11 - Disease Concept Relationship to Molecular Targets
Gene_Product_Has_Organism_Source	Created for internal modeling purposes.
Gene_Product_Has_Structural_Domain_Or_Motif	Use case 4 - Gene organization, expression of cancer functions Use case 5 - Gene analysis support
Gene_Product_Is_Biomarker_Of	Use case 3 - Gene anomaly in cancer disease
Gene_Product_Is_Biomarker_Type	Created for internal modeling purposes.
Gene_Product_Is_Element_In_Pathway	Use case 2 – Scope of gene coverage Use case 4 - Gene organization, expression of cancer functions Use case 11 - Disease Concept Relationship to Molecular Targets
Gene_Product_Is_Physical_Part_Of	Created for internal modeling purposes.
Gene_Product_Malfunction_Associated_With_Disease	Use case 1 - Gene/Protein/Biological Process/Molecular Function Modeling in NCI Thesaurus Use case 3 - Gene anomaly in cancer disease Use case 11 - Disease Concept Relationship to Molecular Targets

Gene_Product_Plays_Role_In_Biological_Process	Use case 5 - Gene analysis support
Procedure_Has_Completely_Excised_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_Has_Excised_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_Has_Imaged_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_Has_Partially_Excised_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_Has_Target_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_May_Have_Completely_Excised_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_May_Have_Excised_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_May_Have_Imaged_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_May_Have_Partially_Excised_Anatomy	Use case 48 - Procedure to Anatomy roles
Procedure_May_Have_Target_Anatomy	Use case 48 - Procedure to Anatomy roles
	Use case 39 -
Regimen_Has_Accepted_Use_For_Disease	Regimen_Has_Accepted_Use_For_Disease
Technique_Has_Associated_Condition	Created for internal modeling purposes.
Technique_Has_Purpose	Created for internal modeling purposes.
Technique_Has_Sample_Or_Specimen_Anatomy	Created for internal modeling purposes.
Technique_Has_Sample_Or_Specimen_Chemical_Or_Drug	Created for internal modeling purposes.
Technique_Has_Target_Anatomy	Created for internal modeling purposes.
Technique_Has_Target_Chemical_Or_Drug	Created for internal modeling purposes.
Technique_Has_Target_Disease	Created for internal modeling purposes.
Technique_Has_Target_Organism	Created for internal modeling purposes.
Technique_Has_Target_Protein	Created for internal modeling purposes.
Technique_Is_Used_In_Technique	Created for internal modeling purposes.
Technique_Uses_Equipment	Created for internal modeling purposes.