

**Reporting Title:** Plasma Cell Proliferation, Marrow  
**Performing Location:** Mayo Clinic Laboratories - Rochester Main Campus

**Ordering Guidance:**  
This test can be ordered at diagnosis or follow-up of a plasma cell neoplasm (plasma cell proliferative disorder).

If CSMRT / mSMART Plasma Cell Proliferative Disorder, Pre-Analysis Cell Sorting, Bone Marrow or MPCDS / mSMART, Plasma Cell Proliferative Disorder, FISH, Bone Marrow is desired to be performed at Mayo, order MSMRT / Mayo Algorithmic Approach for Stratification of Myeloma and Risk-Adapted Therapy Report, Bone Marrow.

The [Multiple Myeloma: Laboratory Screening](#) algorithm will allow plasma cell fluorescence in situ hybridization (FISH) testing to be added, based on this test's flow cytometry results.

- Necessary Information:**
1. Include patient's disease state (untreated, treated, monoclonal gammopathy of undetermined significance, stable).
  2. Indicate if patient is on anti-CD38 therapy.

**Specimen Requirements:**  
**Specimen Type:** Redirected bone marrow  
**Preferred:** Yellow top (ACD solution A or B)  
**Acceptable:** Lavender top (EDTA) or green top (sodium heparin)  
**Specimen Volume:** 4 mL  
**Specimen Stability Information:** 3 days

**Forms:**  
If not ordering electronically, complete, print, and send a [Hematopathology/Cytogenetics Test Request](#) (T726) with the specimen.

Specimen Type	Temperature	Time	Special Container
Bone Marrow	Ambient (preferred)		
	Refrigerated		

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
CK056	Monotypic Plasma Cells:	Alphanumeric		93362-2
CK057	Monotypic PC per Total Events	Alphanumeric	%	93021-4
CK058	Monotypic Plasma Cells S-phase	Alphanumeric	%	93361-4
CK059	Monotypic Plasma Cells DNA Index	Alphanumeric		93360-6
CK060	Monotypic Plasma Cells DNA Ploidy	Alphanumeric		93359-8
CK061	Polytypic PC per Total Events	Alphanumeric	%	93358-0
CK062	Polytypic PC per All Plasma Cells	Alphanumeric	%	93020-6
CK063	Final Diagnosis	Alphanumeric		50398-7

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

- 88182-Flow cytometry, cell cycle or DNA analysis
- 88184-Flow cytometry; first cell surface, cytoplasmic or nuclear marker
- 88185 x 5-Flow cytometry; additional cell surface, cytoplasmic or nuclear marker (each)
- 88187-Flow cytometry interpretation, 2 to 8 Markers (added as FCINT)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
FCINT	Flow Cytometry Interp, 2-8 Markers	1	88187	Yes	No, (Bill Only)

Reference Values:

- Plasma Cell Clonality:
  - Normal bone marrow
  - No monotypic clonal plasma cells detected
- DNA Index:
  - Normal polytypic plasma cells
  - DNA index (G0/G1 cells): Diploid 0.95-1.05