

PSMC4 FISH Probe

Catalog # FA0415 Size 200 uL

Specification

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|----------------------------|---|
| Product Description | Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization Technique. (Technology). |
| Origin | Human |
| Source | Genomic DNA |
| Reactivity | Human |
| Notice | We strongly recommend the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections. |
| Regulation Status | For research use only (RUO) |
| Supplied Product | DAPI Counterstain (1500 ng/mL) 250 uL |
| Storage Instruction | Store at 4°C in the dark. |

Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

Gene Info — PSMC4

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|-------------------------|--|
| Entrez GeneID | 5704 |
| Gene Name | PSMC4 |
| Gene Alias | MGC13687, MGC23214, MGC8570, MIP224, S6, TBP7 |
| Gene Description | proteasome (prosome, macropain) 26S subunit, ATPase, 4 |

Omim ID [602707](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. This subunit has been shown to interact with an orphan member of the nuclear hormone receptor superfamily highly expressed in liver, and with gankyrin, a liver oncoprotein. Two transcript variants encoding different isoforms have been identified. [provided by RefSeq]

Other Designations

MB67 interacting protein|Tat-binding protein 7|protease 26S subunit 6|proteasome 26S ATPase subunit 4

Pathway

- [Proteasome](#)