

# OCT4 Hu-Cyanine 3 SmartFlare™ RNA Detection Probe

Cat. # SF-438

pack size: 50µL (250 rxns)

Store at 2-8°C,  
after reconstitution store at 23-27°C  
DO NOT FREEZE

FOR RESEARCH USE ONLY  
NOT FOR USE IN DIAGNOSTIC PROCEDURES  
NOT FOR HUMAN OR ANIMAL CONSUMPTION



## Product Data Sheet

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Validated Accession # NM\_002701.4

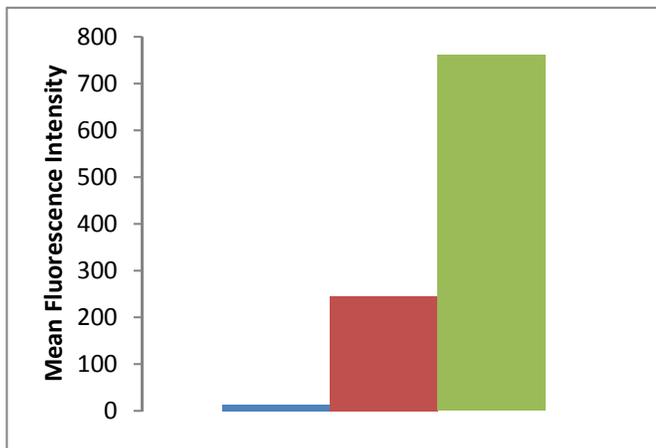
Species Hu

Gene Aliases POU5F1, OCT3, OTF3

### Confirmation of OCT4 SmartFlare Performance:

OCT4 SmartFlare has been tested in a buffer system to detect the release of the fluorophore in the presence of a complementary base pair sequence for each lot to confirm target specificity.

OCT4 SmartFlare has also been tested in a cell model system and demonstrated increased fluorescence in cells expressing the target compared to a scrambled negative control SmartFlare (Figure 1). For additional accession numbers predicted to react with this SmartFlare Probe, please visit <http://www.millipore.com/catalogue/item/SF-438>



**Figure 1:** OCT4 Mean Fluorescence Intensity (green) measured by flow cytometry in living nTERA-2 cells demonstrated a significant increase over unflared cells (blue) as well as scramble control (red). Data shown in graph is representative.

### Storage and Handling:

Material has been 0.22µm filtered. Stable for 5 years at 2-8°C degrees in lyophilized format ONLY. Room temperature is required for reconstituted product.

**Warning-after reconstitution product is sensitive to cold and hot temperatures, a stable room temperature of 23-27°C is required.**

### Handling Recommendations:

Reconstitute with sterile nuclease free water in a drop wise fashion and tap tube repeatedly to fully dissolve lyophilized material. Vortex for 5-10 sec.

Upon reconstitution, store at room temperature for up to 1 year protected from light. Product must be handled with gloves as product can be absorbed through the skin.

### Recommended Cell Testing Protocol:

(example: 30,000 cells in a 200µL media volume within each well of a 96 well plate)

- Reconstitute reagent in 50µL of sterile nuclease free water.
- Create a working solution based on your experiment by diluting 1:20 in sterile PBS.
- Add 4µL directly to cells (at approx 80% confluency).
- Allow to incubate overnight for 16 hrs.
- Detect using fluorescence detection platform of choice.

**SPECIES LEGEND:** Hu Human Ms Mouse Rt Rat Rb Rabbit WR Most Common Vertebrates ( ) Predicted Reactivity

Please visit [www.millipore.com/SmartFlare](http://www.millipore.com/SmartFlare) for additional product information.

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