

The EGFP mRNA will express an enhanced version of the green fluorescent protein, originally isolated from the jellyfish, *Aequorea victoria*. EGFP is a commonly used direct detection reporter in mammalian cell culture, yielding bright green fluorescence with an emission peak at 509 nm.

This mRNA is capped using CleanCap™, TriLink's proprietary co-transcriptional capping method, which results in the naturally occurring Cap 1 structure with high capping efficiency. It is polyadenylated, modified with 5-methoxyuridine and optimized for mammalian systems. It mimics a fully processed mature mRNA.

L-7201-100 (100 µgrams<sup>1</sup>)  
L-7201-1000 (1 mg)  
L-7201-BK (Bulk amount)

1.0 mg/mL in 1 mM Sodium Citrate, pH 6.4  
mRNA Length: 996 nucleotides

Store at or below -40°C

### QC Analysis

Identity and Purity  
Agarose Gel Mobility; Pass  
Concentration: ± 6%; Pass

Product released by Quality Assurance

<sup>1</sup>A standard conversion factor of 40 µg/OD<sub>260</sub> was used to calculate quantity.

## Handling

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Store at or below -40°C. Thaw and work on ice. Upon first use, pulse spin before opening and aliquot into single use portions. Do not vortex. Use only certified RNase-free reagents and consumables with proper RNase-free technique. Use of barrier tips is recommended. Avoid freeze/thaw cycles. Do not mix with media containing serum unless first complexed with a stabilizing transfection reagent.

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The Modified Nucleic Acid **Experts™**

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| Title                                                                                  | Publication/<br>Patent Number | Serial Number    | Filing Date | Country                                                                                                        |
|----------------------------------------------------------------------------------------|-------------------------------|------------------|-------------|----------------------------------------------------------------------------------------------------------------|
| FACS-Optimized Green Fluorescent Protein Mutants with Different Excitation Wavelengths | Expired                       | 60/008,232       | 6-Dec-95    | United States                                                                                                  |
| FACS-Optimized Green Fluorescent Protein Mutants with Different Excitation Wavelengths | 5,968,738                     | 08/761,771       | 6-Dec-96    | United States                                                                                                  |
| FACS-Optimized Mutants of the Green Fluorescent Protein (GFP)                          | Expired                       | 60/010,960       | 1-Feb-96    | United States                                                                                                  |
| FACS-Optimized Mutants of the Green Fluorescent Protein (GFP)                          | 5,804,387                     | 08/791,332       | 31-Jan-97   | United States                                                                                                  |
| Fluorescence-Based Isolation of Differentially Induced Genes                           | 5,994,077                     | 08/926,556       | 10-Sep-97   | United States                                                                                                  |
| FACS-Optimized Mutants of the Green Fluorescent Protein (GFP)                          | 6,090,919                     | 09/135,418       | 17-Aug-98   | United States                                                                                                  |
| Modified Green Fluorescent Proteins                                                    | 5,625,048                     | 08/337,915       | 10-Nov-94   | United States                                                                                                  |
| Modified Green Fluorescent Proteins                                                    | 6,319,669                     | 08/727,452       | 20-Mar-97   | United States                                                                                                  |
| Modified Green Fluorescent Proteins                                                    | 6,066,476                     | 08/753,144       | 20-Nov-96   | United States                                                                                                  |
| Modified Green Fluorescent Proteins                                                    | 5,777,079                     | 08/753,143       | 20-Nov-96   | United States                                                                                                  |
| Modified Green Fluorescent Proteins                                                    | 6,800,733                     | 10/024,686       | 17-Dec-01   | United States                                                                                                  |
| Modified Green Fluorescent Proteins                                                    | 3283523                       | 08-520626        | 13-Nov-95   | Japan                                                                                                          |
| Modified Green Fluorescent Proteins                                                    | 702205                        | 41550/96         | 13-Nov-95   | Australia                                                                                                      |
| Modified Green Fluorescent Proteins                                                    | 2,205,006                     | 2,205,006        | 13-Nov-95   | Canada                                                                                                         |
| Modified Green Fluorescent Proteins                                                    | 2,343,586                     | 2,343,586        | 13-Nov-95   | Canada                                                                                                         |
| Modified Green Fluorescent Proteins                                                    | 804457                        | 95939898.3       | 13-Nov-95   | Europe - including corresponding patents in AT, BE, CH, DE, DK, ES, FR, GR, IE, IT, LI, LU, MC, NL, PT, SE, GB |
| Modified Green Fluorescent Proteins                                                    | 1104769 (pending)             | 1105011.9        | 13-Nov-95   | Europe                                                                                                         |
| Modified Green Fluorescent Proteins                                                    | 295 22 103 (Utility Model)    | 9522103          | 13-Nov-95   | Germany                                                                                                        |
| Long Wavelength Engineered Fluorescent Proteins                                        | 6,124,128                     | 08/706,408       | 30-Aug-96   | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | 6,054,321                     | 08/911,825       | 15-Aug-97   | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | 6,077,707                     | 08/974,737       | 19-Nov-97   | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | 6,403,374                     | 09/465,142       | 16-Dec-99   | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | 6,593,135                     | 09/575,847       | 19-May-00   | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | 6,780,975                     | 10/071,976       | 5-Feb-02    | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | 7,544,776                     | 10/620,099       | 14-Jul-03   | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | 7,560,287                     | 10/924,232       | 23-Aug-04   | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | pending                       | 13/011,432       | 21-Jan-11   | United States                                                                                                  |
| Long Wavelength Engineered Fluorescent Proteins                                        | 4322992                       | 10-510109        | 15-Aug-97   | Japan                                                                                                          |
| Long Wavelength Engineered Fluorescent Proteins                                        | 4427222                       | 2001-586334      | 17-May-01   | Japan                                                                                                          |
| Long Wavelength Engineered Fluorescent Proteins                                        | 727088                        | 43277/97         | 15-Aug-97   | Australia                                                                                                      |
| Long Wavelength Engineered Fluorescent Proteins                                        | 767375                        | 23196/01         | 15-Aug-97   | Australia                                                                                                      |
| Long Wavelength Engineered Fluorescent Proteins                                        | 2,232,242                     | 2,232,242        | 15-Aug-97   | Canada                                                                                                         |
| Long Wavelength Engineered Fluorescent Proteins                                        | 2408302 (pending)             | 2,408,302        | 17-May-01   | Canada                                                                                                         |
| Long Wavelength Engineered Fluorescent Proteins                                        | 886644                        | 97941350.7       | 15-Aug-97   | Europe - including corresponding patents in CH, DE, DK, ES, FR, IE, IT, LI, NL, SE, GB                         |
| Long Wavelength Engineered Fluorescent Proteins                                        | 1285065                       | 20010937550      | 17-May-01   | Europe - including corresponding patents in CH, DE, DK, ES, FR, IE, IT, LI, NL, SE, GB                         |
| Long Wavelength Engineered Fluorescent Proteins                                        | Granted                       | 982972           | 15-Aug-97   | Mexico                                                                                                         |
| Fluorescent Proteins                                                                   | 6,919,186                     | 09/967,301       | 28-Sep-01   | United States                                                                                                  |
| Fluorescent Proteins                                                                   | 7,091,317                     | 10/757,624       | 14-Jan-04   | United States                                                                                                  |
| Fluorescent Proteins and methods of using same                                         | 7,300,762                     | 11/251,209       | 14-Oct-05   | United States                                                                                                  |
| Mutants of Green Fluorescent Protein                                                   | EP1381625                     | EP01972260.2     | 28-Sep-01   | Europe (BE, CH, DE, ES, FR, IT, LI, NL, SE)                                                                    |
| Mutants of Green Fluorescent Protein                                                   | 2,445,035                     | 2,445,035        | 28-Sep-01   | Canada                                                                                                         |
| Mutants of Green Fluorescent Protein                                                   | 2001292040                    | 2001292040       | 28-Sep-01   | Australia                                                                                                      |
| Mutants of Green Fluorescent Protein                                                   | WO 02/085936                  | PCT/01GB/04363   | 28-Sep-01   | PCT                                                                                                            |
| Novel Fluorescent Proteins                                                             | 6,172,188                     | 08/819,612       | 31-Jan-96   | United States                                                                                                  |
| Novel Fluorescent Proteins                                                             | 6,818,443                     | 09/872,364       | 1-Jun-01    | United States                                                                                                  |
| Novel Fluorescent Proteins                                                             | 7,314,915                     | 10/947,178       | 23-Sep-04   | United States                                                                                                  |
| Novel Variants of Green Fluorescent Protein, GFP                                       | 2,232,727                     | 2,232,727        | 31-Jan-96   | Canada                                                                                                         |
| Novel Variants of Green Fluorescent Protein, GFP                                       | EP0851874                     | 96900890.3       | 31-Jan-96   | Europe (BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, NL, SE)                                                        |
| Novel Variants of Green Fluorescent Protein, GFP                                       | WO 97/11094                   | PCT/1996DK/00051 | 31-Jan-96   | PCT                                                                                                            |
| Novel Fluorescent Proteins                                                             | 7,001,986                     | 09/887,784       | 19-Jun-01   | United States                                                                                                  |
| Nucleic Acids Encoding Fluorescent Proteins and Methods of Using the Same              | 7,476,518                     | 11/206,904       | 19-Aug-05   | United States                                                                                                  |
| Fluorescent Proteins                                                                   | 2001279669                    | 2001279669       | 18-Jun-01   | Australia                                                                                                      |
| Fluorescent Proteins                                                                   | 2,410,413                     | 2,410,413        | 18-Jun-01   | Canada                                                                                                         |
| Fluorescent Proteins                                                                   | EP1299414                     | 1957861.6        | 18-Jun-01   | Europe (BE, CH, CY, DE, DK, ES, FR, GB, IE, IT, LI, LU, MC, NL, SE, TR)                                        |
| Novel Fluorescent Proteins                                                             | 4459944                       | 2006-304095      | 9-Nov-06    | Japan                                                                                                          |
| Novel Fluorescent Proteins                                                             | WO 01/98338                   | PCT/2001EP/06848 | 18-Jun-01   | PCT                                                                                                            |