

Cystic Fibrosis is one of the most common life-threatening genetic conditions, with as many as 1 in 25 people serving as a carrier for the autosomal recessive condition^{1,2}. Cystic fibrosis transmembrane conductance regulator (CFTR) genotyping assays can be expensive and restrict assay content to a limited number of targets that are only applicable to a single population.

The MassARRAY® System with iPLEX® Pro CFTR Panel provides a fast and cost-effective way to detect 74 of the most common mutations of the CFTR gene.

- Includes mutations recommended by ACMG and ACOG as well as 51 variants with known CFTR relevance and allele frequency >0.1% (Table 1).
- Enables greater workflow efficiency with minimal manual processing DNA to data in as little as 8 hours.
- Delivers simplified reporting and clear results with automated software provided at no additional cost.



iPLEX Pro CFTR Panel Targets

| 74 Total Targets | | | | | |
|------------------|----------------|----------|------------|------------|-------------|
| F508del | I507del | G542X | G85E | R560T | 621+1G->T |
| 711+1G->T | R334W | R347P | A455E | 1717-1G->A | R553X |
| G551D | 1898+1G->A | 2184delA | 2789+5G->A | 3120+1G->A | 3659delC |
| 3849+10kbC->T | W1282X | N1303K | R117H | R1162X | 1078delT |
| 394delTT | Y122X | R347H | M1101K | S1255P/X | 1898+5G->T |
| 2183AA->G | 2307insA | Y1092X | 3876delA | 3905insT | S549N |
| S549R_1645A->C | S549R-1647T->G | V520F | A559T | 1677delTA | 2055del9->A |
| 2143delT | 3199del6 | 3791delC | 406-1G->A | 935delA | D1152H |
| CFTRdele2,3 | E60X | G178R | G330X | K710X | L206W |
| Q493X | Q890X | R1066C | R1158X | R75X | S1196X |
| W1089X | G1244E | G1349D | G551S | R1162L/Q | S1251N |
| R117C | F508C | 1507V | 1506V | T5/T7/T9 | R560K |

Society-recommended variants

Common variants (allele frequency >0.1%) with known CFTR relevance

ORDERING INFORMATION

| Catalog No. | Item | # Samples | Chip Format |
|-------------|-----------------------------|-----------|-------------|
| 13162 | Complete CFTR Panel Set | 320 | 96 |
| 13162F | Complete CFTR Panel Set CPM | 320 | 96 CPM |
| 13163 | Complete CFTR Panel Set | 1280 | 384 |
| 13163D | Complete CFTR Panel Set CPM | 1280 | 384 CPM |

These panel sets contain assay specific primers and all the required reagents to process DNA samples on the MassARRAY system.

CUSTOM PANEL DESIGN

Don't see what you need? Agena Bioscience offers two options to create your CFTR custom panel. You can independently design content using our online assay design software, or partner with our scientists for assay development services.

References

- 1. Grody WW, Cutting GR, Klinger KW, Richards CS, Watson MS, et al. (2001) Laboratory standards and guidelines for population-based cystic fibrosis carrier screening. Genet Med 3(2): 149-54
- 2. Langfelder-Schwind E, Kloza E, Sugarman E, Pettersen B, Brown T, et al. (2005) Cystic fibrosis prenatal screening in genetic counseling practice: recommendations of the National Society of Genetic Counselors. JGenet Couns 14(1):1-15

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