



Product Sheet

## EGFR Genetic Alteration Cell Panel (ATCC® TCP-1027™)

Please read this FIRST



Storage Temp.  
LN vapor (less than -130°C) only

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Biosafety Level  
1

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: EGFR Genetic Alteration Cell Panel (ATCC® TCP-1027™)

### Description

EGFR/ERBB1/HER1 and ERBB2/EGFR2/HER2 are members of the ErbB super family of receptor tyrosine kinases. These receptors bind multiple EGF family-member ligands to initiate signaling cascades critical for an array of cellular processes, such as proliferation, differentiation, survival, metabolism, and migration. EGFR and ERBB2 are targets of an expanding class of anticancer therapies. The most common mutations associated with sensitivity to EGFR inhibitors include exon 19 deletions and the L858R point mutation. Conversely, the EGFR T790M Mutation has been linked to drug resistance.

The EGFR genetic alteration cell panel (ATCC TCP-1027) is composed of eleven human tumor cell lines from various common cancer types that carry hotspot mutations or gene copy number amplification within the EGFR or ERBB2 gene. The EGFR and ERBB2 status of each cell line has been sequenced and validated by ATCC. This panel is useful for EGFR pathway research and for anti-cancer drug discovery.

### Components

- ATCC CRL-2868 HCC827
- ATCC CRL-2871 HCC4006
- ATCC CCL-231 SW48
- ATCC CRL-5908 NCI-H1975
- ATCC HTB-132 MDA-MB-468
- ATCC HTB-19 BT-20
- ATCC HTB-178 NCI-H596
- ATCC HTB-177 NCI-H460
- ATCC CRL-5928 NCI-H2170
- ATCC HTB-20 BT-474
- ATCC HTB-27 MDA-MB-361

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

### ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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