# Avian leukosis virus

## VR-1828™

### Description

Avian leukosis virus strain RAV-2 is propagated in UMNSAH/DF-1 cells (ATCC CRL-3586).
**Strain designation:** RAV-2
**Deposited As:** Rous-associated virus-B

### Storage Conditions

**Product format:** Frozen
**Storage conditions:** -70°C or colder

### Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

### BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always

used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

## Growth Conditions

**Host:** UMNSAH/DF-1 (ATCC CRL-3586)
**Effects:** cell enlargement; cell rounding; cell sloughing; CPE; cytoplasmic vacuolation; syncytia
**Complete medium:**
EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)
**Temperature:** 37°C
**Atmosphere:** 95% Air, 5% $CO_2$
**Recommendations for infection:** For best results, infection should be performed on a 60-80% confluent, 18-48 hour old cellular monolayer. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 $cm^2$). Wash monolayer with PBS or serum free medium prior to inoculation. Adsorb virus dilution for 1-2 hours at 37°C in a humidified 5% $CO_2$atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.
**Incubation:** 7-14 days at 37°C in a humidified 5% $CO_2$atmosphere, until CPE is progressed through 80% of the monolayer. Media changes may be necessary.

## Notes

Derived by adaptation from primary cell culture product ATCC VR-658 to UMNSAH/DF-1 cells (ATCC CRL-3586). ATCC VR-658 and ATCC VR-1828 have not been compared for sequence or infectivity in primary cell culture and continuous tissue culture.

**Key Abbreviations:** °C, Degrees Celsius; $CO_2$, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; PBS, Phosphate-buffered saline; RAV-2, Rous-associated virus-2; UMNSAH/DF-1, a spontaneously immortalized chicken embryo fibroblast cell line

## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Avian leukosis virus (ATCC VR-1828)

## References

References and other information relating to this material are available at www.atcc.org.

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## Revision

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## Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor