Coronavirus Solutions to Expedite Your Covid-19 Research

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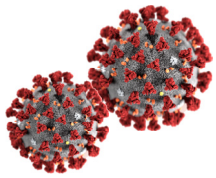
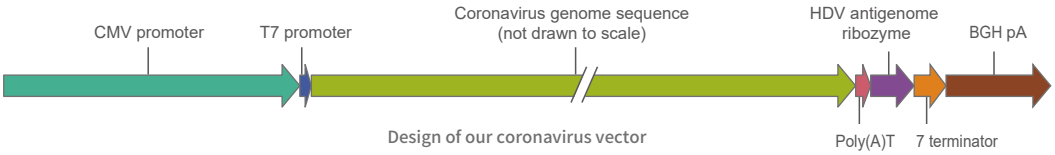


Coronavirus Vectors

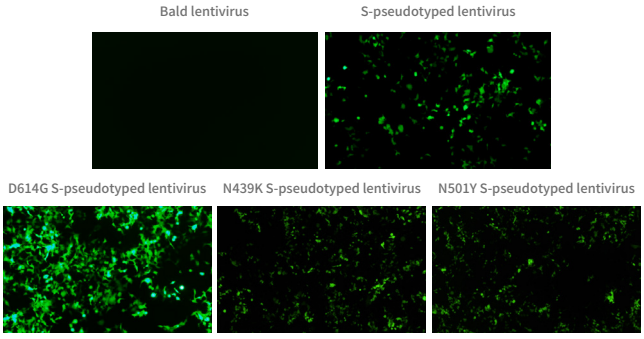
- Allows reconstitution of live virus by simply transfecting vectors into packaging cells.
- Vectors expressing both wildtype and mutated coronavirus genomes available.
- Vectors carrying reporter genes (EGFP, Luc etc.) available for easy viral infection analysis.
- Extremely safe DNA-based vectors, that are non-infectious by themselves.



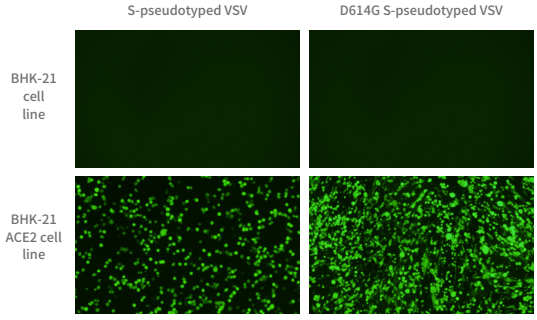
Design of our coronavirus vector

Lentivirus and VSV Pseudotyped with S Protein

- Suitable for studying mechanisms of coronavirus cell entry and evolution of viral tropism over time.
- Highly optimized pseudotyping protocols for achieving high transduction efficiency.
- Can be safely handled in any regular BSL2 facility.
- Lentivirus and VSV pseudotyped with SARS-CoV-2 S protein or its variants including D614G, N501Y and N439K.
- ACE2-expressing cell lines optimized for transduction with SARS-CoV-2 S protein or VSV-G pseudotyped virus available.

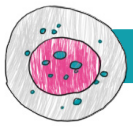


293T cells overexpressing human ACE2 receptor transduced with bald lentivirus, lentivirus pseudotyped with S protein and its variants.

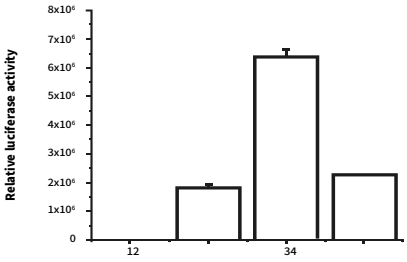


VSV pseudotyped with SARS-CoV-2 S protein and its D614G mutant specifically infected BHK-21 cells overexpressing human ACE2 receptor.

Cell Line Models



- Virus growth cell lines suitable for coronavirus isolation and propagation.
- Virus packaging cell lines suitable for packaging recombinant vectors into live virus.
- Virus assay cell lines, expressing or co-expressing hACE2, hTMPRSS2 and others well-known coronavirus receptors, for studying mechanisms of viral entry into host cells and other aspects of virus biology.



Luciferase assay in 293T(hACE2) cells transduced with lentivirus pseudotyped by different proteins;1: Untransduced cells. 2: SARS-CoV-2 S protein. 3: SARS-CoV-2 D614G S protein. 4: VSV-G Protein.

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