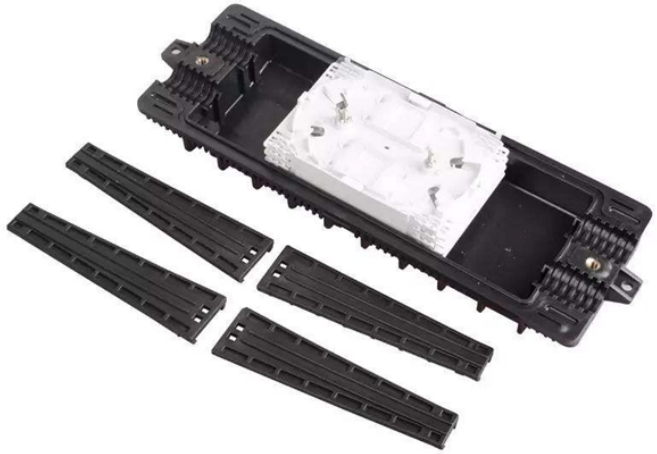
Ribbon-shaped and bundle-shaped tail fibers



Overview

Tail fibers are elongated, flexible rods that are highly specialized to recognize unique molecular markers on target bacteria surfaces. This specificity ensures that the phage efficiently finds and attaches to its intended host, initiating the infection process. The bundle tail fiber is a crucial component in the fiber optic cable assembly, and any failure in this component can significantly impact the performance of the entire. Here, using a minimal myocyanophage, termed Pam3, isolated from Lake Chaohu, we demonstrate that the chaperone gp25 forms a stable complex with the tail fiber gp24 at a stoichiometry of 3:3. 1-Å cryo-electron microscopy structure of this complex revealed an elongated structure with the gp25. Don't know?

Study with Quizlet and memorize flashcards containing terms like x-shaped bundle of fibers on the underside of the brain, side of the body opposite to the side on which a particular condition occurs, part of the thalamus that receives inputs from the optic nerve and more. However, the in situ high-resolution. They are among the most abundant and diverse biological entities on Earth, playing crucial roles in ecosystems and offering promising applications in

medicine and biotechnology. At. Order of dsDNA bacteriophages with an external tail structure. Includes the Podoviridae, Siphoviridae and Myoviridae.

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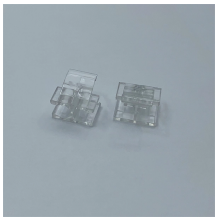
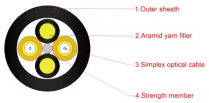


Tail fibers are protein appendages located at the distal end of a bacteriophage''s tail, extending from a structure called the baseplate. These fibers vary in length and number.



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Bacteriophage T5, a Siphovirus belonging to the order Caudovirales, has a flexible, three-fold symmetric tail, to which three L-shaped fibres are attached. These fibres recognize...

Here, we will discuss the function and dynamics of the tail of the Caudovirales. We will examine the similarities and differences of all three families belonging to this order and point out specific ...

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Here, we present the structure of DT57C determined by cryo-EM, and an atomic model of the virus, which was further explored using all-atom molecular dynamics simulations.

	The ascending dorsal root fibers and the descending ventral root fibers from and to discrete body areas form a spinal nerve (Figure 3.10). There are 31 paired spinal nerves.
	Siphophages have a long, flexible, and noncontractile tail that connects to the capsid through a neck. The phage tail is essential for host cell recognition and virus–host cell interactions; ...

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