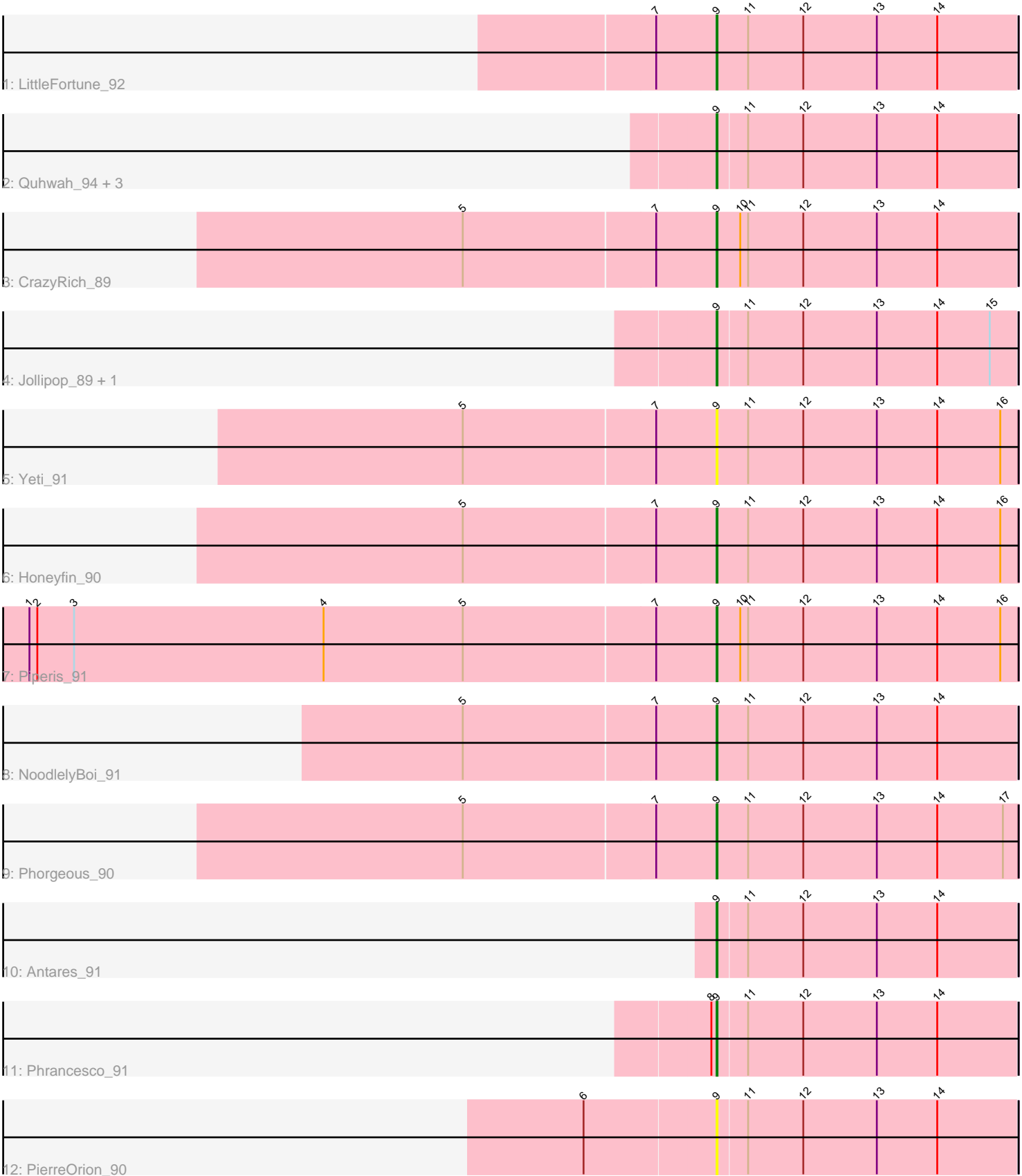# Pham 4954

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 4954 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4954 has 16 members, 3 are drafts.

Phages represented in each track:
• Track 1 : LittleFortune_92
• Track 2 : Quhwah_94, EarickHC_91, KaiHaiDragon_91, ClearAsMud_92
• Track 3 : CrazyRich_89
• Track 4 : Jollipop_89, PiperSansNom_91
• Track 5 : Yeti_91
• Track 6 : Honeyfin_90
• Track 7 : Piperis_91
• Track 8 : NoodlelyBoi_91
• Track 9 : Phorgeous_90
• Track 10 : Antares_91
• Track 11 : Phrancesco_91
• Track 12 : PierreOrion_90


***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 9, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Antares_91, ClearAsMud_92, CrazyRich_89, EarickHC_91, Honeyfin_90, Jollipop_89, KaiHaiDragon_91, LittleFortune_92, NoodlelyBoi_91, Phorgeous_90, Phrancesco_91, PierreOrion_90, PiperSansNom_91, Piperis_91, Quhwah_94, Yeti_91,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
•

**Summary by start number:**

Start 9:
• Found in 16 of 16 ( 100.0% ) of genes in pham

• Manual Annotations of this start: 13 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antares_91 (EC), ClearAsMud_92 (EC), CrazyRich_89 (EC), EarickHC_91 (EC), Honeyfin_90 (EC), Jollipop_89 (EC), KaiHaiDragon_91 (EC), LittleFortune_92 (EC), NoodlelyBoi_91 (EC), Phorgeous_90 (EC), Phrancesco_91 (EC), PierreOrion_90 (EC), PiperSansNom_91 (EC), Piperis_91 (EC), Quhwah_94 (EC), Yeti_91 (EC),

**Summary by clusters:**

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:
•Start number 9 was manually annotated 13 times for cluster EC.


*Gene Information:*

Gene: Antares_91 Start: 52976, Stop: 53314, Start Num: 9
Candidate Starts for Antares_91:
(Start: 9 @52976 has 13 MA's), (11, 53009), (12, 53072), (13, 53156), (14, 53225),

Gene: ClearAsMud_92 Start: 52601, Stop: 52939, Start Num: 9
Candidate Starts for ClearAsMud_92:
(Start: 9 @52601 has 13 MA's), (11, 52634), (12, 52697), (13, 52781), (14, 52850),

Gene: CrazyRich_89 Start: 52561, Stop: 52902, Start Num: 9
Candidate Starts for CrazyRich_89:
(5, 52276), (7, 52492), (Start: 9 @52561 has 13 MA's), (10, 52588), (11, 52597), (12, 52660), (13, 52744), (14, 52813),

Gene: EarickHC_91 Start: 52606, Stop: 52944, Start Num: 9
Candidate Starts for EarickHC_91:
(Start: 9 @52606 has 13 MA's), (11, 52639), (12, 52702), (13, 52786), (14, 52855),

Gene: Honeyfin_90 Start: 52391, Stop: 52735, Start Num: 9
Candidate Starts for Honeyfin_90:
(5, 52106), (7, 52322), (Start: 9 @52391 has 13 MA's), (11, 52427), (12, 52490), (13, 52574), (14, 52643), (16, 52715),

Gene: Jollipop_89 Start: 52703, Stop: 53041, Start Num: 9
Candidate Starts for Jollipop_89:
(Start: 9 @52703 has 13 MA's), (11, 52736), (12, 52799), (13, 52883), (14, 52952), (15, 53012),

Gene: KaiHaiDragon_91 Start: 52606, Stop: 52944, Start Num: 9
Candidate Starts for KaiHaiDragon_91:
(Start: 9 @52606 has 13 MA's), (11, 52639), (12, 52702), (13, 52786), (14, 52855),

Gene: LittleFortune_92 Start: 52772, Stop: 53113, Start Num: 9
Candidate Starts for LittleFortune_92:
(7, 52703), (Start: 9 @52772 has 13 MA's), (11, 52808), (12, 52871), (13, 52955), (14, 53024),

Gene: NoodlelyBoi_91 Start: 53225, Stop: 53566, Start Num: 9
Candidate Starts for NoodlelyBoi_91:
(5, 52940), (7, 53156), (Start: 9 @53225 has 13 MA's), (11, 53261), (12, 53324), (13, 53408), (14, 53477),

Gene: Phorgeous_90 Start: 52432, Stop: 52776, Start Num: 9
Candidate Starts for Phorgeous_90:
(5, 52147), (7, 52363), (Start: 9 @52432 has 13 MA's), (11, 52468), (12, 52531), (13, 52615), (14, 52684), (17, 52759),

Gene: Phrancesco_91 Start: 52869, Stop: 53207, Start Num: 9
Candidate Starts for Phrancesco_91:
(8, 52863), (Start: 9 @52869 has 13 MA's), (11, 52902), (12, 52965), (13, 53049), (14, 53118),

Gene: PierreOrion_90 Start: 52578, Stop: 52916, Start Num: 9
Candidate Starts for PierreOrion_90:
(6, 52431), (Start: 9 @52578 has 13 MA's), (11, 52611), (12, 52674), (13, 52758), (14, 52827),

Gene: PiperSansNom_91 Start: 52891, Stop: 53229, Start Num: 9
Candidate Starts for PiperSansNom_91:
(Start: 9 @52891 has 13 MA's), (11, 52924), (12, 52987), (13, 53071), (14, 53140), (15, 53200),

Gene: Piperis_91 Start: 52475, Stop: 52819, Start Num: 9
Candidate Starts for Piperis_91:
(1, 51695), (2, 51704), (3, 51746), (4, 52031), (5, 52190), (7, 52406), (Start: 9 @52475 has 13 MA's), (10, 52502), (11, 52511), (12, 52574), (13, 52658), (14, 52727), (16, 52799),

Gene: Quhwah_94 Start: 53163, Stop: 53501, Start Num: 9
Candidate Starts for Quhwah_94:
(Start: 9 @53163 has 13 MA's), (11, 53196), (12, 53259), (13, 53343), (14, 53412),

Gene: Yeti_91 Start: 52628, Stop: 52972, Start Num: 9
Candidate Starts for Yeti_91:
(5, 52343), (7, 52559), (Start: 9 @52628 has 13 MA's), (11, 52664), (12, 52727), (13, 52811), (14, 52880), (16, 52952),