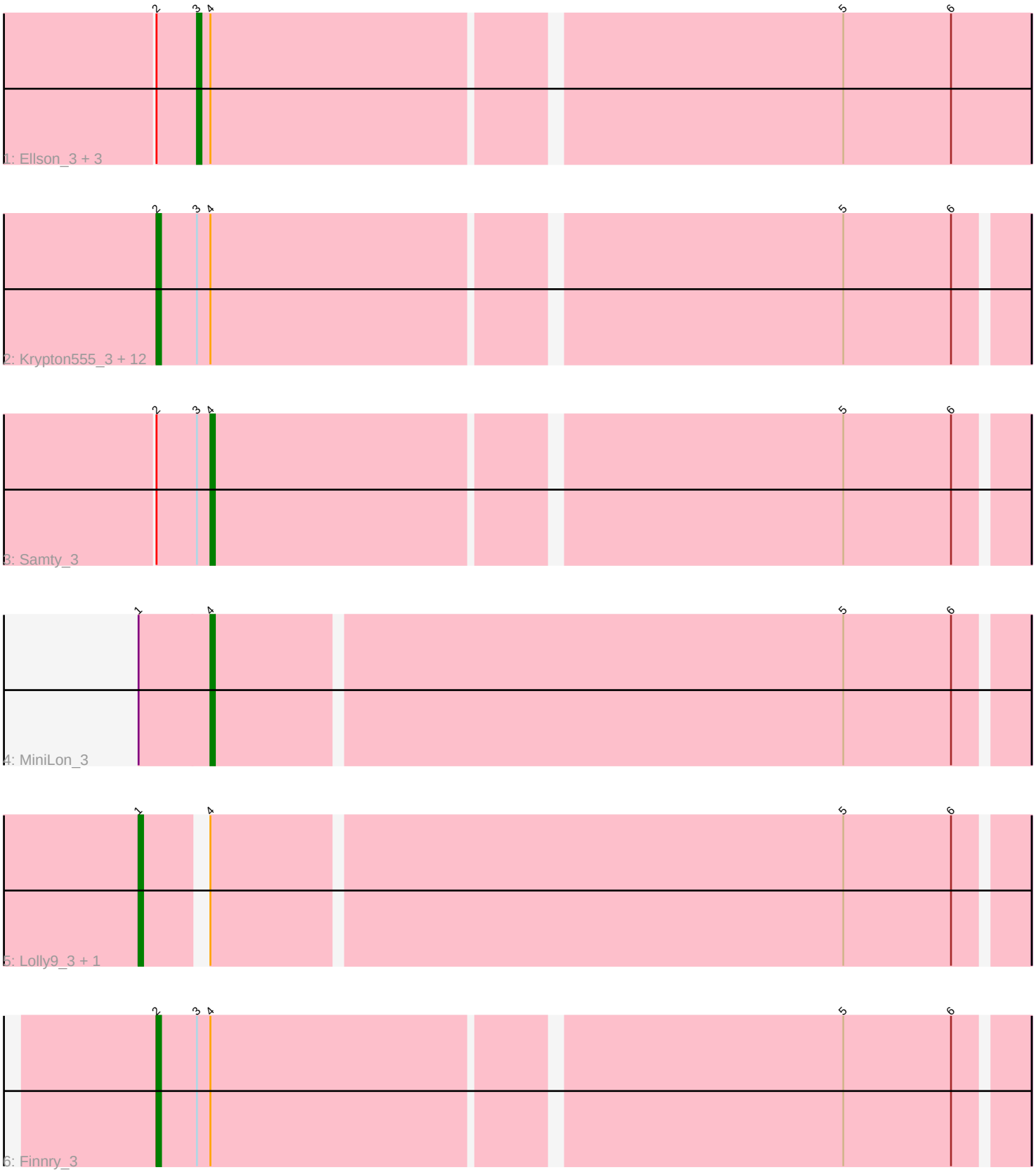
# Pham 216543


2
3
4
5
6
1: Ellson_3 + 3
2: Krypton555_3 + 12
3: Samty_3
1
4: MiniLon_3
5: Lolly9_3 + 1
6: Finnry_3

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 216543 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216543 has 22 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Ellson_3, Whirlwind_4, LiyuLake_3, Moostard_3
• Track 2 : Krypton555_3, Bellis_3, Snenia_3, MsGreen_3, Clautastrophe_3, Lumos_3, DuncansLeg_3, Jobypre_3, Red305_3, Kingsolomon_3, Jubie_3, Nicholas_3, TriFive_3
• Track 3 : Samty_3
• Track 4 : MiniLon_3
• Track 5 : Lolly9_3, MiniMac_3
• Track 6 : Finnry_3

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bellis_3, Clautastrophe_3, DuncansLeg_3, Finnry_3, Jobypre_3, Jubie_3, Kingsolomon_3, Krypton555_3, Lumos_3, MsGreen_3, Nicholas_3, Red305_3, Snenia_3, TriFive_3,

Genes that have the "Most Annotated" start but do not call it:
• Ellson_3, LiyuLake_3, Moostard_3, Samty_3, Whirlwind_4,

Genes that do not have the "Most Annotated" start:
• Lolly9_3, MiniLon_3, MiniMac_3,

**Summary by start number:**

Start 1:
• Found in 3 of 22 ( 13.6% ) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Lolly9_3 (L3), MiniMac_3 (L3),

Start 2:

• Found in 19 of 22 ( 86.4% ) of genes in pham
• Manual Annotations of this start: 11 of 17
• Called 73.7% of time when present
• Phage (with cluster) where this start called: Bellis_3 (L3), Clautastrophe_3 (L3), DuncansLeg_3 (L3), Finnry_3 (L3), Jobypre_3 (L3), Jubie_3 (L3), Kingsolomon_3 (L3), Krypton555_3 (L3), Lumos_3 (L3), MsGreen_3 (L3), Nicholas_3 (L3), Red305_3 (L3), Snenia_3 (L3), TriFive_3 (L3),

Start 3:
• Found in 19 of 22 ( 86.4% ) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 21.1% of time when present
• Phage (with cluster) where this start called: Ellson_3 (L3), LiyuLake_3 (L3), Moostard_3 (L3), Whirlwind_4 (L3),

Start 4:
• Found in 22 of 22 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 9.1% of time when present
• Phage (with cluster) where this start called: MiniLon_3 (L3), Samty_3 (L3),

**Summary by clusters:**

There is one cluster represented in this pham: L3

Info for manual annotations of cluster L3:
•Start number 1 was manually annotated 2 times for cluster L3.
•Start number 2 was manually annotated 11 times for cluster L3.
•Start number 3 was manually annotated 2 times for cluster L3.
•Start number 4 was manually annotated 2 times for cluster L3.

***Gene Information:***

Gene: Bellis_3 Start: 850, Stop: 1035, Start Num: 2
Candidate Starts for Bellis_3:
(Start: 2 @850 has 11 MA's), (Start: 3 @859 has 2 MA's), (Start: 4 @862 has 2 MA's), (5, 997), (6, 1021),

Gene: Clautastrophe_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for Clautastrophe_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: DuncansLeg_3 Start: 863, Stop: 1051, Start Num: 2
Candidate Starts for DuncansLeg_3:
(Start: 2 @863 has 11 MA's), (Start: 3 @872 has 2 MA's), (Start: 4 @875 has 2 MA's), (5, 1010), (6, 1034),

Gene: Ellson_3 Start: 881, Stop: 1060, Start Num: 3
Candidate Starts for Ellson_3:

(Start: 2 @872 has 11 MA's), (Start: 3 @881 has 2 MA's), (Start: 4 @884 has 2 MA's), (5, 1019), (6, 1043),

Gene: Finnry_3 Start: 851, Stop: 1036, Start Num: 2
Candidate Starts for Finnry_3:
(Start: 2 @851 has 11 MA's), (Start: 3 @860 has 2 MA's), (Start: 4 @863 has 2 MA's), (5, 998), (6, 1022),

Gene: Jobypre_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for Jobypre_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: Jubie_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for Jubie_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: Kingsolomon_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for Kingsolomon_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: Krypton555_3 Start: 849, Stop: 1034, Start Num: 2
Candidate Starts for Krypton555_3:
(Start: 2 @849 has 11 MA's), (Start: 3 @858 has 2 MA's), (Start: 4 @861 has 2 MA's), (5, 996), (6, 1020),

Gene: LiyuLake_3 Start: 872, Stop: 1051, Start Num: 3
Candidate Starts for LiyuLake_3:
(Start: 2 @863 has 11 MA's), (Start: 3 @872 has 2 MA's), (Start: 4 @875 has 2 MA's), (5, 1010), (6, 1034),

Gene: Lolly9_3 Start: 857, Stop: 1045, Start Num: 1
Candidate Starts for Lolly9_3:
(Start: 1 @857 has 2 MA's), (Start: 4 @869 has 2 MA's), (5, 1007), (6, 1031),

Gene: Lumos_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for Lumos_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: MiniLon_3 Start: 869, Stop: 1045, Start Num: 4
Candidate Starts for MiniLon_3:
(Start: 1 @857 has 2 MA's), (Start: 4 @869 has 2 MA's), (5, 1007), (6, 1031),

Gene: MiniMac_3 Start: 857, Stop: 1045, Start Num: 1
Candidate Starts for MiniMac_3:
(Start: 1 @857 has 2 MA's), (Start: 4 @869 has 2 MA's), (5, 1007), (6, 1031),

Gene: Moostard_3 Start: 859, Stop: 1035, Start Num: 3
Candidate Starts for Moostard_3:

(Start: 2 @850 has 11 MA's), (Start: 3 @859 has 2 MA's), (Start: 4 @862 has 2 MA's), (5, 997), (6, 1021),

Gene: MsGreen_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for MsGreen_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: Nicholas_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for Nicholas_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: Red305_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for Red305_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: Samty_3 Start: 862, Stop: 1035, Start Num: 4
Candidate Starts for Samty_3:
(Start: 2 @850 has 11 MA's), (Start: 3 @859 has 2 MA's), (Start: 4 @862 has 2 MA's), (5, 997), (6, 1021),

Gene: Snenia_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for Snenia_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: TriFive_3 Start: 860, Stop: 1048, Start Num: 2
Candidate Starts for TriFive_3:
(Start: 2 @860 has 11 MA's), (Start: 3 @869 has 2 MA's), (Start: 4 @872 has 2 MA's), (5, 1007), (6, 1031),

Gene: Whirlwind_4 Start: 858, Stop: 1034, Start Num: 3
Candidate Starts for Whirlwind_4:
(Start: 2 @849 has 11 MA's), (Start: 3 @858 has 2 MA's), (Start: 4 @861 has 2 MA's), (5, 996), (6, 1020),