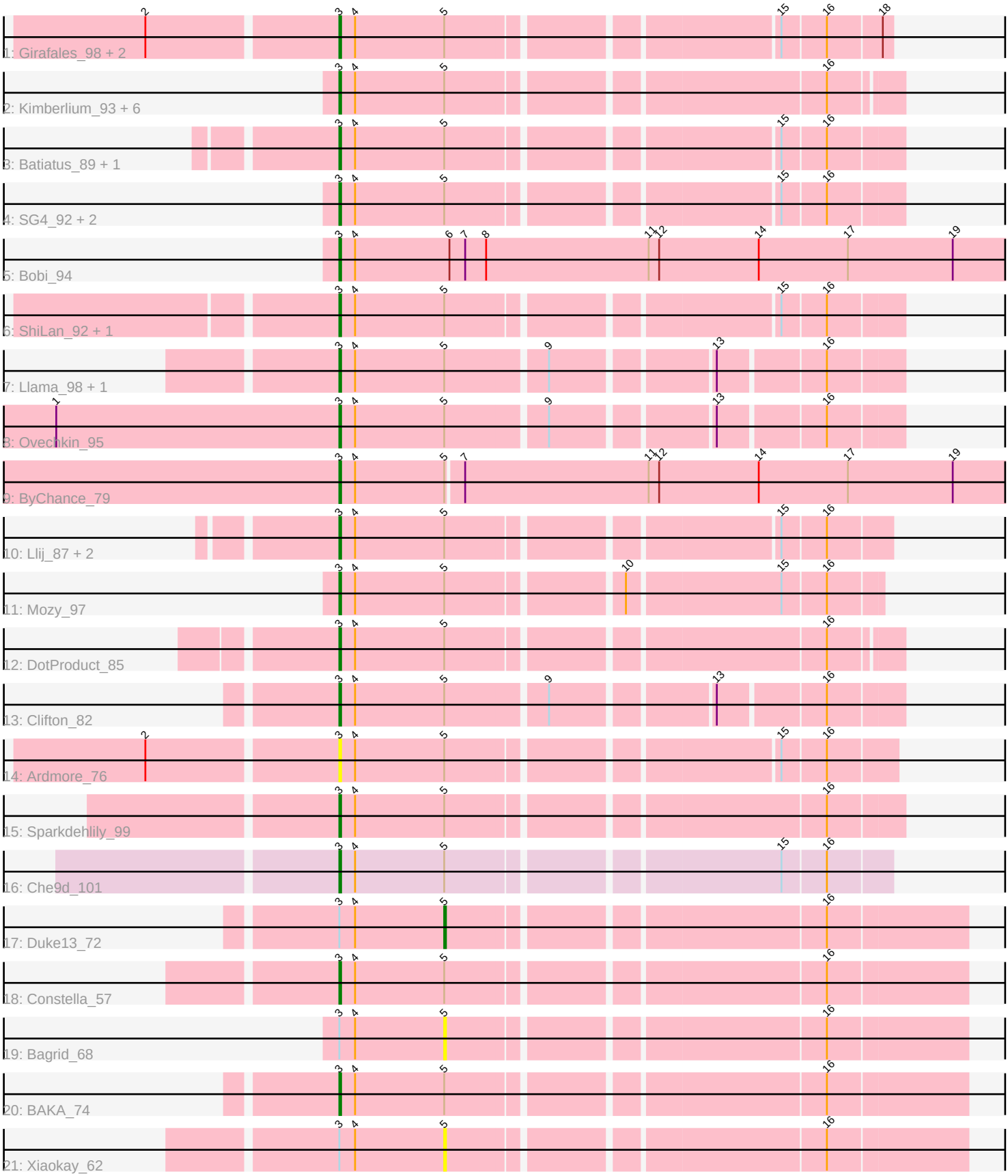
Pham 347834


1: Girafales_98 + 2
2: Kimberlium_93 + 6
3: Batiatus_89 + 1
4: SG4_92 + 2
5: Bobi_94
6: ShiLan_92 + 1
7: Llama_98 + 1
8: Ovechkin_95
9: ByChance_79
10: Llij_87 + 2
11: Mozy_97
12: DotProduct_85
13: Clifton_82
14: Ardmore_76
15: Sparkdehlily_99
16: Che9d_101
17: Duke13_72
18: Constella_57
19: Bagrid_68
20: BAKA_74
21: Xiaokay_62

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 347834 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347834 has 36 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Girafales_98, Quico_98, Florinda_101
• Track 2 : Kimberlium_93, EricMillard_69, Pound_70, Optimus_74, Pacc40_87, Thibault_62, Kersh_95
• Track 3 : Batiatus_89, Hegedechwinu_91
• Track 4 : SG4_92, Pollywog_93, Ramsey_96
• Track 5 : Bobi_94
• Track 6 : ShiLan_92, James_93
• Track 7 : Llama_98, Ochi17_97
• Track 8 : Ovechkin_95
• Track 9 : ByChance_79
• Track 10 : Llij_87, Mutaforma13_92, Hades_88
• Track 11 : Mozy_97
• Track 12 : DotProduct_85
• Track 13 : Clifton_82
• Track 14 : Ardmore_76
• Track 15 : Sparkdehlily_99
• Track 16 : Che9d_101
• Track 17 : Duke13_72
• Track 18 : Constella_57
• Track 19 : Bagrid_68
• Track 20 : BAKA_74
• Track 21 : Xiaokay_62

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

The start number called the most often in the published annotations is 3, it was called in 32 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ardmore_76, BAKA_74, Batiatus_89, Bobi_94, ByChance_79, Che9d_101, Clifton_82, Constella_57, DotProduct_85, EricMillard_69, Florinda_101, Girafales_98, Hades_88, Hegedechwinu_91, James_93, Kersh_95, Kimberlium_93, Llama_98, Llij_87, Mozy_97, Mutaforma13_92, Ochi17_97, Optimus_74, Ovechkin_95, Pacc40_87, Pollywog_93, Pound_70, Quico_98, Ramsey_96, SG4_92, ShiLan_92,

Sparkdehlily_99, Thibault_62,

Genes that have the "Most Annotated" start but do not call it:
• Bagrid_68, Duke13_72, Xiaokay_62,

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

Summary by start number:

Start 3:
• Found in 36 of 36 (100.0%) of genes in pham
• Manual Annotations of this start: 32 of 33
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Ardmore_76 (F1), BAKA_74 (J), Batiatus_89 (F1), Bobi_94 (F1), ByChance_79 (F1), Che9d_101 (F2), Clifton_82 (F1), Constella_57 (J), DotProduct_85 (F1), EricMillard_69 (J), Florinda_101 (F1), Girafales_98 (F1), Hades_88 (F1), Hegedechwinu_91 (F1), James_93 (F1), Kersh_95 (F1), Kimberlium_93 (F1), Llama_98 (F1), Llij_87 (F1), Mozy_97 (F1), Mutaforma13_92 (F1), Ochi17_97 (F1), Optimus_74 (J), Ovechkin_95 (F1), Pacc40_87 (F1), Pollywog_93 (F1), Pound_70 (J), Quico_98 (F1), Ramsey_96 (F1), SG4_92 (F1), ShiLan_92 (F1), Sparkdehlily_99 (F1), Thibault_62 (J),

Start 5:
• Found in 35 of 36 (97.2%) of genes in pham
• Manual Annotations of this start: 1 of 33
• Called 8.6% of time when present
• Phage (with cluster) where this start called: Bagrid_68 (J), Duke13_72 (J), Xiaokay_62 (J),

Summary by clusters:

There are 3 clusters represented in this pham: F1, F2, J,

Info for manual annotations of cluster F1:
•Start number 3 was manually annotated 25 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 3 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster J:
•Start number 3 was manually annotated 6 times for cluster J.
•Start number 5 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Ardmore_76 Start: 46009, Stop: 46302, Start Num: 3
Candidate Starts for Ardmore_76:
(2, 45904), (Start: 3 @46009 has 32 MA's), (4, 46018), (Start: 5 @46069 has 1 MA's), (15, 46240), (16, 46264),

Gene: BAKA_74 Start: 50332, Stop: 49997, Start Num: 3
Candidate Starts for BAKA_74:
(Start: 3 @50332 has 32 MA's), (4, 50323), (Start: 5 @50272 has 1 MA's), (16, 50074),

Gene: Bagrid_68 Start: 49050, Stop: 48775, Start Num: 5
Candidate Starts for Bagrid_68:
(Start: 3 @49110 has 32 MA's), (4, 49101), (Start: 5 @49050 has 1 MA's), (16, 48852),

Gene: Batiatus_89 Start: 51111, Stop: 51407, Start Num: 3
Candidate Starts for Batiatus_89:
(Start: 3 @51111 has 32 MA's), (4, 51120), (Start: 5 @51171 has 1 MA's), (15, 51342), (16, 51366),

Gene: Bobi_94 Start: 52628, Stop: 53020, Start Num: 3
Candidate Starts for Bobi_94:
(Start: 3 @52628 has 32 MA's), (4, 52637), (6, 52691), (7, 52700), (8, 52712), (11, 52805), (12, 52811), (14, 52868), (17, 52919), (19, 52979),

Gene: ByChance_79 Start: 46220, Stop: 46609, Start Num: 3
Candidate Starts for ByChance_79:
(Start: 3 @46220 has 32 MA's), (4, 46229), (Start: 5 @46280 has 1 MA's), (7, 46289), (11, 46394), (12, 46400), (14, 46457), (17, 46508), (19, 46568),

Gene: Che9d_101 Start: 50979, Stop: 51272, Start Num: 3
Candidate Starts for Che9d_101:
(Start: 3 @50979 has 32 MA's), (4, 50988), (Start: 5 @51039 has 1 MA's), (15, 51213), (16, 51237),

Gene: Clifton_82 Start: 49376, Stop: 49672, Start Num: 3
Candidate Starts for Clifton_82:
(Start: 3 @49376 has 32 MA's), (4, 49385), (Start: 5 @49436 has 1 MA's), (9, 49490), (13, 49574), (16, 49631),

Gene: Constella_57 Start: 44626, Stop: 44291, Start Num: 3
Candidate Starts for Constella_57:
(Start: 3 @44626 has 32 MA's), (4, 44617), (Start: 5 @44566 has 1 MA's), (16, 44368),

Gene: DotProduct_85 Start: 49272, Stop: 49568, Start Num: 3
Candidate Starts for DotProduct_85:
(Start: 3 @49272 has 32 MA's), (4, 49281), (Start: 5 @49332 has 1 MA's), (16, 49530),

Gene: Duke13_72 Start: 49484, Stop: 49209, Start Num: 5
Candidate Starts for Duke13_72:
(Start: 3 @49544 has 32 MA's), (4, 49535), (Start: 5 @49484 has 1 MA's), (16, 49286),

Gene: EricMillard_69 Start: 49963, Stop: 49628, Start Num: 3
Candidate Starts for EricMillard_69:
(Start: 3 @49963 has 32 MA's), (4, 49954), (Start: 5 @49903 has 1 MA's), (16, 49705),

Gene: Florinda_101 Start: 53017, Stop: 53307, Start Num: 3
Candidate Starts for Florinda_101:
(2, 52912), (Start: 3 @53017 has 32 MA's), (4, 53026), (Start: 5 @53077 has 1 MA's), (15, 53248), (16, 53272), (18, 53302),

Gene: Girafales_98 Start: 52622, Stop: 52912, Start Num: 3

Candidate Starts for Girafales_98:
(2, 52517), (Start: 3 @52622 has 32 MA's), (4, 52631), (Start: 5 @52682 has 1 MA's), (15, 52853), (16, 52877), (18, 52907),

Gene: Hades_88 Start: 48876, Stop: 49172, Start Num: 3
Candidate Starts for Hades_88:
(Start: 3 @48876 has 32 MA's), (4, 48885), (Start: 5 @48936 has 1 MA's), (15, 49107), (16, 49131),

Gene: Hegedechwinu_91 Start: 50212, Stop: 50508, Start Num: 3
Candidate Starts for Hegedechwinu_91:
(Start: 3 @50212 has 32 MA's), (4, 50221), (Start: 5 @50272 has 1 MA's), (15, 50443), (16, 50467),

Gene: James_93 Start: 52977, Stop: 53273, Start Num: 3
Candidate Starts for James_93:
(Start: 3 @52977 has 32 MA's), (4, 52986), (Start: 5 @53037 has 1 MA's), (15, 53208), (16, 53232),

Gene: Kersh_95 Start: 54006, Stop: 54305, Start Num: 3
Candidate Starts for Kersh_95:
(Start: 3 @54006 has 32 MA's), (4, 54015), (Start: 5 @54066 has 1 MA's), (16, 54264),

Gene: Kimberlium_93 Start: 51162, Stop: 51458, Start Num: 3
Candidate Starts for Kimberlium_93:
(Start: 3 @51162 has 32 MA's), (4, 51171), (Start: 5 @51222 has 1 MA's), (16, 51420),

Gene: Llama_98 Start: 52582, Stop: 52878, Start Num: 3
Candidate Starts for Llama_98:
(Start: 3 @52582 has 32 MA's), (4, 52591), (Start: 5 @52642 has 1 MA's), (9, 52696), (13, 52780), (16, 52837),

Gene: Llij_87 Start: 50129, Stop: 50419, Start Num: 3
Candidate Starts for Llij_87:
(Start: 3 @50129 has 32 MA's), (4, 50138), (Start: 5 @50189 has 1 MA's), (15, 50360), (16, 50384),

Gene: Mozy_97 Start: 51483, Stop: 51770, Start Num: 3
Candidate Starts for Mozy_97:
(Start: 3 @51483 has 32 MA's), (4, 51492), (Start: 5 @51543 has 1 MA's), (10, 51633), (15, 51717), (16, 51741),

Gene: Mutaforma13_92 Start: 50818, Stop: 51102, Start Num: 3
Candidate Starts for Mutaforma13_92:
(Start: 3 @50818 has 32 MA's), (4, 50827), (Start: 5 @50878 has 1 MA's), (15, 51049), (16, 51073),

Gene: Ochi17_97 Start: 52177, Stop: 52473, Start Num: 3
Candidate Starts for Ochi17_97:
(Start: 3 @52177 has 32 MA's), (4, 52186), (Start: 5 @52237 has 1 MA's), (9, 52291), (13, 52375), (16, 52432),

Gene: Optimus_74 Start: 50678, Stop: 50343, Start Num: 3
Candidate Starts for Optimus_74:
(Start: 3 @50678 has 32 MA's), (4, 50669), (Start: 5 @50618 has 1 MA's), (16, 50420),

Gene: Ovechkin_95 Start: 52388, Stop: 52684, Start Num: 3
Candidate Starts for Ovechkin_95:

(1, 52226), (Start: 3 @52388 has 32 MA's), (4, 52397), (Start: 5 @52448 has 1 MA's), (9, 52502), (13, 52586), (16, 52643),

Gene: Pacc40_87 Start: 52144, Stop: 52443, Start Num: 3
Candidate Starts for Pacc40_87:
(Start: 3 @52144 has 32 MA's), (4, 52153), (Start: 5 @52204 has 1 MA's), (16, 52402),

Gene: Pollywog_93 Start: 52973, Stop: 53269, Start Num: 3
Candidate Starts for Pollywog_93:
(Start: 3 @52973 has 32 MA's), (4, 52982), (Start: 5 @53033 has 1 MA's), (15, 53204), (16, 53228),

Gene: Pound_70 Start: 51651, Stop: 51316, Start Num: 3
Candidate Starts for Pound_70:
(Start: 3 @51651 has 32 MA's), (4, 51642), (Start: 5 @51591 has 1 MA's), (16, 51393),

Gene: Quico_98 Start: 52837, Stop: 53127, Start Num: 3
Candidate Starts for Quico_98:
(2, 52732), (Start: 3 @52837 has 32 MA's), (4, 52846), (Start: 5 @52897 has 1 MA's), (15, 53068), (16, 53092), (18, 53122),

Gene: Ramsey_96 Start: 53396, Stop: 53689, Start Num: 3
Candidate Starts for Ramsey_96:
(Start: 3 @53396 has 32 MA's), (4, 53405), (Start: 5 @53456 has 1 MA's), (15, 53627), (16, 53651),

Gene: SG4_92 Start: 52390, Stop: 52686, Start Num: 3
Candidate Starts for SG4_92:
(Start: 3 @52390 has 32 MA's), (4, 52399), (Start: 5 @52450 has 1 MA's), (15, 52621), (16, 52645),

Gene: ShiLan_92 Start: 53432, Stop: 53728, Start Num: 3
Candidate Starts for ShiLan_92:
(Start: 3 @53432 has 32 MA's), (4, 53441), (Start: 5 @53492 has 1 MA's), (15, 53663), (16, 53687),

Gene: Sparkdehlily_99 Start: 50589, Stop: 50888, Start Num: 3
Candidate Starts for Sparkdehlily_99:
(Start: 3 @50589 has 32 MA's), (4, 50598), (Start: 5 @50649 has 1 MA's), (16, 50847),

Gene: Thibault_62 Start: 46268, Stop: 45933, Start Num: 3
Candidate Starts for Thibault_62:
(Start: 3 @46268 has 32 MA's), (4, 46259), (Start: 5 @46208 has 1 MA's), (16, 46010),

Gene: Xiaokay_62 Start: 46427, Stop: 46152, Start Num: 5
Candidate Starts for Xiaokay_62:
(Start: 3 @46487 has 32 MA's), (4, 46478), (Start: 5 @46427 has 1 MA's), (16, 46229),