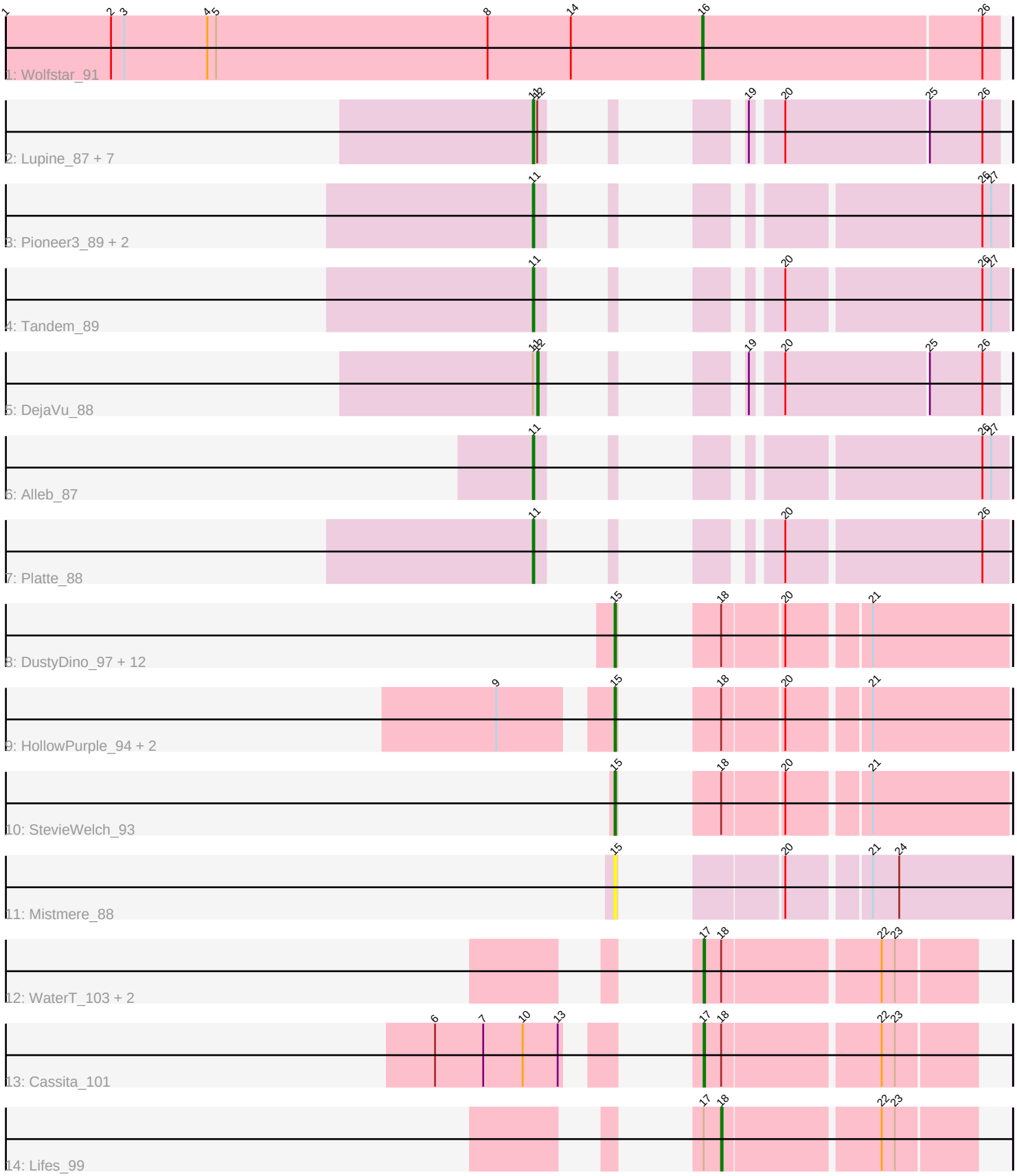
Pham 306617


1: Wolfstar_91
2: Lupine_87 + 7
3: Pioneer3_89 + 2
4: Tandem_89
5: DejaVu_88
6: Alleb_87
7: Platte_88
8: DustyDino_97 + 12
9: HollowPurple_94 + 2
10: StevieWelch_93
11: Mistmere_88
12: WaterT_103 + 2
13: Cassita_101
14: Lifes_99

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 306617 Report

This analysis was run 06/27/26 on database version 652.

Pham number 306617 has 39 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_91
• Track 2 : Lupine_87, Pavlo_87, Uterion_91, Roman_89, PhillyPhilly_85, Solimine_89, Saradis_89, Hubbs_86
• Track 3 : Pioneer3_89, OlinDD_89, Hortus1_89
• Track 4 : Tandem_89
• Track 5 : DejaVu_88
• Track 6 : Alleb_87
• Track 7 : Platte_88
• Track 8 : DustyDino_97, Lyell_93, Issa7_92, RunningBrook_95, Shroomer_98, Musetta_92, Yuma_92, Casablancas_94, ASegato_91, Fork_89, Necrophoxinus_95, Erenyeager_93, Deschain_94
• Track 9 : HollowPurple_94, SteakFry_96, Welcome_95
• Track 10 : StevieWelch_93
• Track 11 : Mistmere_88
• Track 12 : WaterT_103, BarnCat_98, LeeroyJenkins_107
• Track 13 : Cassita_101
• Track 14 : Lifes_99

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

The start number called the most often in the published annotations is 15, it was called in 15 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_91, Casablancas_94, Deschain_94, DustyDino_97, Erenyeager_93, Fork_89, HollowPurple_94, Issa7_92, Lyell_93, Mistmere_88, Musetta_92, Necrophoxinus_95, RunningBrook_95, Shroomer_98, SteakFry_96, StevieWelch_93, Welcome_95, Yuma_92,

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

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

• Alleb_87, BarnCat_98, Cassita_101, DejaVu_88, Hortus1_89, Hubbs_86, LeeroyJenkins_107, Lifes_99, Lupine_87, OlinDD_89, Pavlo_87, PhillyPhilly_85, Pioneer3_89, Platte_88, Roman_89, Saradis_89, Solimine_89, Tandem_89, Uterion_91, WaterT_103, Wolfstar_91,

Summary by start number:

Start 11:
• Found in 15 of 39 (38.5%) of genes in pham
• Manual Annotations of this start: 11 of 33
• Called 93.3% of time when present
• Phage (with cluster) where this start called: Alleb_87 (ED1), Hortus1_89 (ED1), Hubbs_86 (ED1), Lupine_87 (ED1), OlinDD_89 (ED1), Pavlo_87 (ED1), PhillyPhilly_85 (ED1), Pioneer3_89 (ED1), Platte_88 (ED1), Roman_89 (ED1), Saradis_89 (ED1), Solimine_89 (ED1), Tandem_89 (ED1), Uterion_91 (ED1),

Start 12:
• Found in 9 of 39 (23.1%) of genes in pham
• Manual Annotations of this start: 1 of 33
• Called 11.1% of time when present
• Phage (with cluster) where this start called: DejaVu_88 (ED1),

Start 15:
• Found in 18 of 39 (46.2%) of genes in pham
• Manual Annotations of this start: 15 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_91 (ED2), Casablancas_94 (ED2), Deschain_94 (ED2), DustyDino_97 (ED2), Erenyeager_93 (ED2), Fork_89 (ED2), HollowPurple_94 (ED2), Issa7_92 (ED2), Lyell_93 (ED2), Mistmere_88 (ED3), Musetta_92 (ED2), Necrophoxinus_95 (ED2), RunningBrook_95 (ED2), Shroomer_98 (ED2), SteakFry_96 (ED2), StevieWelch_93 (ED2), Welcome_95 (ED2), Yuma_92 (ED2),

Start 16:
• Found in 1 of 39 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wolfstar_91 (ED),

Start 17:
• Found in 5 of 39 (12.8%) of genes in pham
• Manual Annotations of this start: 4 of 33
• Called 80.0% of time when present
• Phage (with cluster) where this start called: BarnCat_98 (GB), Cassita_101 (GB), LeeroyJenkins_107 (GB), WaterT_103 (GB),

Start 18:
• Found in 22 of 39 (56.4%) of genes in pham
• Manual Annotations of this start: 1 of 33
• Called 4.5% of time when present
• Phage (with cluster) where this start called: Lifes_99 (GB),

Summary by clusters:

There are 5 clusters represented in this pham: ED2, ED3, ED1, GB, ED,

Info for manual annotations of cluster ED:
•Start number 16 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 11 was manually annotated 11 times for cluster ED1.
•Start number 12 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 15 was manually annotated 15 times for cluster ED2.

Info for manual annotations of cluster GB:
•Start number 17 was manually annotated 4 times for cluster GB.
•Start number 18 was manually annotated 1 time for cluster GB.

Gene Information:

Gene: ASegato_91 Start: 51629, Stop: 51426, Start Num: 15
Candidate Starts for ASegato_91:
(Start: 15 @51629 has 15 MA's), (Start: 18 @51608 has 1 MA's), (20, 51569), (21, 51518),

Gene: Alleb_87 Start: 51547, Stop: 51341, Start Num: 11
Candidate Starts for Alleb_87:
(Start: 11 @51547 has 11 MA's), (26, 51358), (27, 51352),

Gene: BarnCat_98 Start: 52842, Stop: 52666, Start Num: 17
Candidate Starts for BarnCat_98:
(Start: 17 @52842 has 4 MA's), (Start: 18 @52830 has 1 MA's), (22, 52728), (23, 52719),

Gene: Casablancas_94 Start: 51545, Stop: 51342, Start Num: 15
Candidate Starts for Casablancas_94:
(Start: 15 @51545 has 15 MA's), (Start: 18 @51524 has 1 MA's), (20, 51485), (21, 51434),

Gene: Cassita_101 Start: 53639, Stop: 53463, Start Num: 17
Candidate Starts for Cassita_101:
(6, 53753), (7, 53720), (10, 53693), (13, 53669), (Start: 17 @53639 has 4 MA's), (Start: 18 @53627 has 1 MA's), (22, 53525), (23, 53516),

Gene: DejaVu_88 Start: 51141, Stop: 50941, Start Num: 12
Candidate Starts for DejaVu_88:
(Start: 11 @51144 has 11 MA's), (Start: 12 @51141 has 1 MA's), (19, 51102), (20, 51084), (25, 50988), (26, 50952),

Gene: Deschain_94 Start: 52209, Stop: 52006, Start Num: 15
Candidate Starts for Deschain_94:
(Start: 15 @52209 has 15 MA's), (Start: 18 @52188 has 1 MA's), (20, 52149), (21, 52098),

Gene: DustyDino_97 Start: 52768, Stop: 52565, Start Num: 15

Candidate Starts for DustyDino_97:
(Start: 15 @52768 has 15 MA's), (Start: 18 @52747 has 1 MA's), (20, 52708), (21, 52657),

Gene: Erenyeager_93 Start: 51557, Stop: 51354, Start Num: 15
Candidate Starts for Erenyeager_93:
(Start: 15 @51557 has 15 MA's), (Start: 18 @51536 has 1 MA's), (20, 51497), (21, 51446),

Gene: Fork_89 Start: 51507, Stop: 51304, Start Num: 15
Candidate Starts for Fork_89:
(Start: 15 @51507 has 15 MA's), (Start: 18 @51486 has 1 MA's), (20, 51447), (21, 51396),

Gene: HollowPurple_94 Start: 52066, Stop: 51863, Start Num: 15
Candidate Starts for HollowPurple_94:
(9, 52129), (Start: 15 @52066 has 15 MA's), (Start: 18 @52045 has 1 MA's), (20, 52006), (21, 51955),

Gene: Hortus1_89 Start: 52122, Stop: 51916, Start Num: 11
Candidate Starts for Hortus1_89:
(Start: 11 @52122 has 11 MA's), (26, 51933), (27, 51927),

Gene: Hubbs_86 Start: 51193, Stop: 50990, Start Num: 11
Candidate Starts for Hubbs_86:
(Start: 11 @51193 has 11 MA's), (Start: 12 @51190 has 1 MA's), (19, 51151), (20, 51133), (25, 51037), (26, 51001),

Gene: Issa7_92 Start: 51522, Stop: 51319, Start Num: 15
Candidate Starts for Issa7_92:
(Start: 15 @51522 has 15 MA's), (Start: 18 @51501 has 1 MA's), (20, 51462), (21, 51411),

Gene: LeeroyJenkins_107 Start: 54718, Stop: 54542, Start Num: 17
Candidate Starts for LeeroyJenkins_107:
(Start: 17 @54718 has 4 MA's), (Start: 18 @54706 has 1 MA's), (22, 54604), (23, 54595),

Gene: Lifes_99 Start: 51700, Stop: 51536, Start Num: 18
Candidate Starts for Lifes_99:
(Start: 17 @51712 has 4 MA's), (Start: 18 @51700 has 1 MA's), (22, 51598), (23, 51589),

Gene: Lupine_87 Start: 51257, Stop: 51054, Start Num: 11
Candidate Starts for Lupine_87:
(Start: 11 @51257 has 11 MA's), (Start: 12 @51254 has 1 MA's), (19, 51215), (20, 51197), (25, 51101), (26, 51065),

Gene: Lyell_93 Start: 51718, Stop: 51521, Start Num: 15
Candidate Starts for Lyell_93:
(Start: 15 @51718 has 15 MA's), (Start: 18 @51697 has 1 MA's), (20, 51658), (21, 51607),

Gene: Mistmere_88 Start: 50347, Stop: 50141, Start Num: 15
Candidate Starts for Mistmere_88:
(Start: 15 @50347 has 15 MA's), (20, 50287), (21, 50236), (24, 50218),

Gene: Musetta_92 Start: 52057, Stop: 51854, Start Num: 15
Candidate Starts for Musetta_92:
(Start: 15 @52057 has 15 MA's), (Start: 18 @52036 has 1 MA's), (20, 51997), (21, 51946),

Gene: Necrophoxinus_95 Start: 52404, Stop: 52201, Start Num: 15
Candidate Starts for Necrophoxinus_95:
(Start: 15 @52404 has 15 MA's), (Start: 18 @52383 has 1 MA's), (20, 52344), (21, 52293),

Gene: OlinDD_89 Start: 52127, Stop: 51921, Start Num: 11
Candidate Starts for OlinDD_89:
(Start: 11 @52127 has 11 MA's), (26, 51938), (27, 51932),

Gene: Pavlo_87 Start: 51216, Stop: 51013, Start Num: 11
Candidate Starts for Pavlo_87:
(Start: 11 @51216 has 11 MA's), (Start: 12 @51213 has 1 MA's), (19, 51174), (20, 51156), (25, 51060), (26, 51024),

Gene: PhillyPhilly_85 Start: 50753, Stop: 50550, Start Num: 11
Candidate Starts for PhillyPhilly_85:
(Start: 11 @50753 has 11 MA's), (Start: 12 @50750 has 1 MA's), (19, 50711), (20, 50693), (25, 50597), (26, 50561),

Gene: Pioneer3_89 Start: 51925, Stop: 51719, Start Num: 11
Candidate Starts for Pioneer3_89:
(Start: 11 @51925 has 11 MA's), (26, 51736), (27, 51730),

Gene: Platte_88 Start: 51693, Stop: 51487, Start Num: 11
Candidate Starts for Platte_88:
(Start: 11 @51693 has 11 MA's), (20, 51633), (26, 51504),

Gene: Roman_89 Start: 51858, Stop: 51655, Start Num: 11
Candidate Starts for Roman_89:
(Start: 11 @51858 has 11 MA's), (Start: 12 @51855 has 1 MA's), (19, 51816), (20, 51798), (25, 51702), (26, 51666),

Gene: RunningBrook_95 Start: 52768, Stop: 52565, Start Num: 15
Candidate Starts for RunningBrook_95:
(Start: 15 @52768 has 15 MA's), (Start: 18 @52747 has 1 MA's), (20, 52708), (21, 52657),

Gene: Saradis_89 Start: 50819, Stop: 50616, Start Num: 11
Candidate Starts for Saradis_89:
(Start: 11 @50819 has 11 MA's), (Start: 12 @50816 has 1 MA's), (19, 50777), (20, 50759), (25, 50663), (26, 50627),

Gene: Shroomer_98 Start: 52008, Stop: 51805, Start Num: 15
Candidate Starts for Shroomer_98:
(Start: 15 @52008 has 15 MA's), (Start: 18 @51987 has 1 MA's), (20, 51948), (21, 51897),

Gene: Solimine_89 Start: 51715, Stop: 51512, Start Num: 11
Candidate Starts for Solimine_89:
(Start: 11 @51715 has 11 MA's), (Start: 12 @51712 has 1 MA's), (19, 51673), (20, 51655), (25, 51559), (26, 51523),

Gene: SteakFry_96 Start: 52066, Stop: 51863, Start Num: 15
Candidate Starts for SteakFry_96:
(9, 52129), (Start: 15 @52066 has 15 MA's), (Start: 18 @52045 has 1 MA's), (20, 52006), (21, 51955),

Gene: StevieWelch_93 Start: 51678, Stop: 51475, Start Num: 15
Candidate Starts for StevieWelch_93:
(Start: 15 @51678 has 15 MA's), (Start: 18 @51657 has 1 MA's), (20, 51618), (21, 51567),

Gene: Tandem_89 Start: 52005, Stop: 51799, Start Num: 11
Candidate Starts for Tandem_89:
(Start: 11 @52005 has 11 MA's), (20, 51945), (26, 51816), (27, 51810),

Gene: Uterion_91 Start: 51150, Stop: 50947, Start Num: 11
Candidate Starts for Uterion_91:
(Start: 11 @51150 has 11 MA's), (Start: 12 @51147 has 1 MA's), (19, 51108), (20, 51090), (25, 50994), (26, 50958),

Gene: WaterT_103 Start: 53845, Stop: 53669, Start Num: 17
Candidate Starts for WaterT_103:
(Start: 17 @53845 has 4 MA's), (Start: 18 @53833 has 1 MA's), (22, 53731), (23, 53722),

Gene: Welcome_95 Start: 52220, Stop: 52017, Start Num: 15
Candidate Starts for Welcome_95:
(9, 52283), (Start: 15 @52220 has 15 MA's), (Start: 18 @52199 has 1 MA's), (20, 52160), (21, 52109),

Gene: Wolfstar_91 Start: 52955, Stop: 52755, Start Num: 16
Candidate Starts for Wolfstar_91:
(1, 53432), (2, 53360), (3, 53351), (4, 53294), (5, 53288), (8, 53102), (14, 53045), (Start: 16 @52955 has 1 MA's), (26, 52766),

Gene: Yuma_92 Start: 51729, Stop: 51526, Start Num: 15
Candidate Starts for Yuma_92:
(Start: 15 @51729 has 15 MA's), (Start: 18 @51708 has 1 MA's), (20, 51669), (21, 51618),