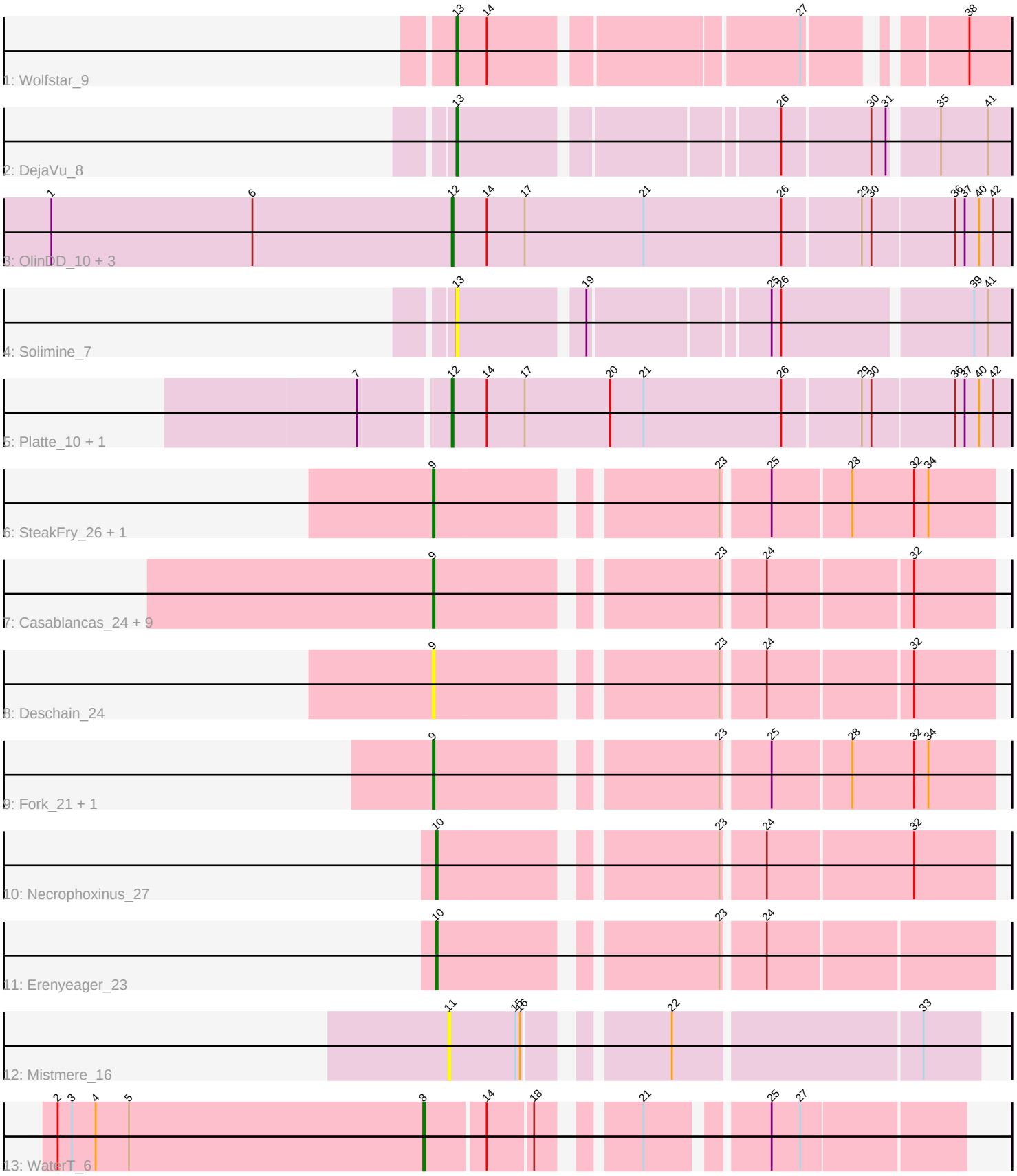
Pham 347910


1: Wolfstar_9
2: DejaVu_8
3: OlinDD_10 + 3
4: Solimine_7
5: Platte_10 + 1
6: SteakFry_26 + 1
7: Casablancas_24 + 9
8: Deschain_24
9: Fork_21 + 1
10: Necrophoxinus_27
11: Erenyeager_23
12: Mistmere_16
13: WaterT_6

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 347910 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347910 has 28 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_9
• Track 2 : DejaVu_8
• Track 3 : OlinDD_10, Hortus1_10, Pioneer3_10, Alleb_11
• Track 4 : Solimine_7
• Track 5 : Platte_10, Tandem_10
• Track 6 : SteakFry_26, HollowPurple_25
• Track 7 : Casablancas_24, DustyDino_26, Yuma_23, ASegato_23, Lyell_24, Issa7_22, Musetta_23, Shroomer_27, RunningBrook_24, Welcome_24
• Track 8 : Deschain_24
• Track 9 : Fork_21, StevieWelch_24
• Track 10 : Necrophoxinus_27
• Track 11 : Erenyeager_23
• Track 12 : Mistmere_16
• Track 13 : WaterT_6

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 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_23, Casablancas_24, Deschain_24, DustyDino_26, Fork_21, HollowPurple_25, Issa7_22, Lyell_24, Musetta_23, RunningBrook_24, Shroomer_27, SteakFry_26, StevieWelch_24, Welcome_24, Yuma_23,

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

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

• Alleb_11, DejaVu_8, Erenyeager_23, Hortus1_10, Mistmere_16, Necrophoxinus_27, OlinDD_10, Pioneer3_10, Platte_10, Solimine_7, Tandem_10, WaterT_6, Wolfstar_9,

Summary by start number:

Start 8:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: WaterT_6 (GB),

Start 9:
• Found in 15 of 28 (53.6%) of genes in pham
• Manual Annotations of this start: 13 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_23 (ED2), Casablancas_24 (ED2), Deschain_24 (ED2), DustyDino_26 (ED2), Fork_21 (ED2), HollowPurple_25 (ED2), Issa7_22 (ED2), Lyell_24 (ED2), Musetta_23 (ED2), RunningBrook_24 (ED2), Shroomer_27 (ED2), SteakFry_26 (ED2), StevieWelch_24 (ED2), Welcome_24 (ED2), Yuma_23 (ED2),

Start 10:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Erenyeager_23 (ED2), Necrophoxinus_27 (ED2),

Start 11:
• Found in 1 of 28 (3.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mistmere_16 (ED3),

Start 12:
• Found in 6 of 28 (21.4%) of genes in pham
• Manual Annotations of this start: 6 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alleb_11 (ED1), Hortus1_10 (ED1), OlinDD_10 (ED1), Pioneer3_10 (ED1), Platte_10 (ED1), Tandem_10 (ED1),

Start 13:
• Found in 3 of 28 (10.7%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DejaVu_8 (ED1), Solimine_7 (ED1), Wolfstar_9 (ED),

Summary by clusters:

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

Info for manual annotations of cluster ED:
•Start number 13 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 12 was manually annotated 6 times for cluster ED1.
•Start number 13 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 9 was manually annotated 13 times for cluster ED2.
•Start number 10 was manually annotated 2 times for cluster ED2.

Info for manual annotations of cluster GB:
•Start number 8 was manually annotated 1 time for cluster GB.

Gene Information:

Gene: ASegato_23 Start: 7211, Stop: 7531, Start Num: 9
Candidate Starts for ASegato_23:
(Start: 9 @7211 has 13 MA's), (23, 7370), (24, 7394), (32, 7481),

Gene: Alleb_11 Start: 4007, Stop: 4354, Start Num: 12
Candidate Starts for Alleb_11:
(1, 3755), (6, 3881), (Start: 12 @4007 has 6 MA's), (14, 4028), (17, 4052), (21, 4127), (26, 4214), (29, 4262), (30, 4268), (36, 4319), (37, 4325), (40, 4334), (42, 4343),

Gene: Casablancas_24 Start: 7151, Stop: 7471, Start Num: 9
Candidate Starts for Casablancas_24:
(Start: 9 @7151 has 13 MA's), (23, 7310), (24, 7334), (32, 7421),

Gene: DejaVu_8 Start: 3130, Stop: 3447, Start Num: 13
Candidate Starts for DejaVu_8:
(Start: 13 @3130 has 2 MA's), (26, 3313), (30, 3367), (31, 3376), (35, 3403), (41, 3433),

Gene: Deschain_24 Start: 7815, Stop: 8135, Start Num: 9
Candidate Starts for Deschain_24:
(Start: 9 @7815 has 13 MA's), (23, 7974), (24, 7998), (32, 8085),

Gene: DustyDino_26 Start: 7914, Stop: 8234, Start Num: 9
Candidate Starts for DustyDino_26:
(Start: 9 @7914 has 13 MA's), (23, 8073), (24, 8097), (32, 8184),

Gene: Erenyeager_23 Start: 7431, Stop: 7748, Start Num: 10
Candidate Starts for Erenyeager_23:
(Start: 10 @7431 has 2 MA's), (23, 7587), (24, 7611),

Gene: Fork_21 Start: 6865, Stop: 7188, Start Num: 9
Candidate Starts for Fork_21:
(Start: 9 @6865 has 13 MA's), (23, 7024), (25, 7051), (28, 7099), (32, 7138), (34, 7147),

Gene: HollowPurple_25 Start: 7435, Stop: 7758, Start Num: 9

Candidate Starts for HollowPurple_25:
(Start: 9 @7435 has 13 MA's), (23, 7594), (25, 7621), (28, 7669), (32, 7708), (34, 7717),

Gene: Hortus1_10 Start: 3961, Stop: 4308, Start Num: 12
Candidate Starts for Hortus1_10:
(1, 3709), (6, 3835), (Start: 12 @3961 has 6 MA's), (14, 3982), (17, 4006), (21, 4081), (26, 4168), (29, 4216), (30, 4222), (36, 4273), (37, 4279), (40, 4288), (42, 4297),

Gene: Issa7_22 Start: 6846, Stop: 7166, Start Num: 9
Candidate Starts for Issa7_22:
(Start: 9 @6846 has 13 MA's), (23, 7005), (24, 7029), (32, 7116),

Gene: Lyell_24 Start: 7327, Stop: 7647, Start Num: 9
Candidate Starts for Lyell_24:
(Start: 9 @7327 has 13 MA's), (23, 7486), (24, 7510), (32, 7597),

Gene: Mistmere_16 Start: 4951, Stop: 5253, Start Num: 11
Candidate Starts for Mistmere_16:
(11, 4951), (15, 4993), (16, 4996), (22, 5068), (33, 5218),

Gene: Musetta_23 Start: 7405, Stop: 7725, Start Num: 9
Candidate Starts for Musetta_23:
(Start: 9 @7405 has 13 MA's), (23, 7564), (24, 7588), (32, 7675),

Gene: Necrophoxinus_27 Start: 8208, Stop: 8528, Start Num: 10
Candidate Starts for Necrophoxinus_27:
(Start: 10 @8208 has 2 MA's), (23, 8364), (24, 8388), (32, 8478),

Gene: OlinDD_10 Start: 3960, Stop: 4307, Start Num: 12
Candidate Starts for OlinDD_10:
(1, 3708), (6, 3834), (Start: 12 @3960 has 6 MA's), (14, 3981), (17, 4005), (21, 4080), (26, 4167), (29, 4215), (30, 4221), (36, 4272), (37, 4278), (40, 4287), (42, 4296),

Gene: Pioneer3_10 Start: 3993, Stop: 4340, Start Num: 12
Candidate Starts for Pioneer3_10:
(1, 3741), (6, 3867), (Start: 12 @3993 has 6 MA's), (14, 4014), (17, 4038), (21, 4113), (26, 4200), (29, 4248), (30, 4254), (36, 4305), (37, 4311), (40, 4320), (42, 4329),

Gene: Platte_10 Start: 3794, Stop: 4141, Start Num: 12
Candidate Starts for Platte_10:
(7, 3740), (Start: 12 @3794 has 6 MA's), (14, 3815), (17, 3839), (20, 3893), (21, 3914), (26, 4001), (29, 4049), (30, 4055), (36, 4106), (37, 4112), (40, 4121), (42, 4130),

Gene: RunningBrook_24 Start: 7914, Stop: 8234, Start Num: 9
Candidate Starts for RunningBrook_24:
(Start: 9 @7914 has 13 MA's), (23, 8073), (24, 8097), (32, 8184),

Gene: Shroomer_27 Start: 7414, Stop: 7737, Start Num: 9
Candidate Starts for Shroomer_27:
(Start: 9 @7414 has 13 MA's), (23, 7573), (24, 7597), (32, 7687),

Gene: Solimine_7 Start: 3140, Stop: 3460, Start Num: 13
Candidate Starts for Solimine_7:

(Start: 13 @3140 has 2 MA's), (19, 3212), (25, 3317), (26, 3323), (39, 3437), (41, 3446),

Gene: SteakFry_26 Start: 7435, Stop: 7758, Start Num: 9
Candidate Starts for SteakFry_26:
(Start: 9 @7435 has 13 MA's), (23, 7594), (25, 7621), (28, 7669), (32, 7708), (34, 7717),

Gene: StevieWelch_24 Start: 7555, Stop: 7878, Start Num: 9
Candidate Starts for StevieWelch_24:
(Start: 9 @7555 has 13 MA's), (23, 7714), (25, 7741), (28, 7789), (32, 7828), (34, 7837),

Gene: Tandem_10 Start: 3898, Stop: 4245, Start Num: 12
Candidate Starts for Tandem_10:
(7, 3844), (Start: 12 @3898 has 6 MA's), (14, 3919), (17, 3943), (20, 3997), (21, 4018), (26, 4105), (29, 4153), (30, 4159), (36, 4210), (37, 4216), (40, 4225), (42, 4234),

Gene: WaterT_6 Start: 1700, Stop: 1993, Start Num: 8
Candidate Starts for WaterT_6:
(2, 1469), (3, 1478), (4, 1493), (5, 1514), (Start: 8 @1700 has 1 MA's), (14, 1736), (18, 1763), (21, 1811), (25, 1877), (27, 1895),

Gene: Welcome_24 Start: 7401, Stop: 7721, Start Num: 9
Candidate Starts for Welcome_24:
(Start: 9 @7401 has 13 MA's), (23, 7560), (24, 7584), (32, 7671),

Gene: Wolfstar_9 Start: 4035, Stop: 4340, Start Num: 13
Candidate Starts for Wolfstar_9:
(Start: 13 @4035 has 2 MA's), (14, 4053), (27, 4233), (38, 4314),

Gene: Yuma_23 Start: 7304, Stop: 7624, Start Num: 9
Candidate Starts for Yuma_23:
(Start: 9 @7304 has 13 MA's), (23, 7463), (24, 7487), (32, 7574),