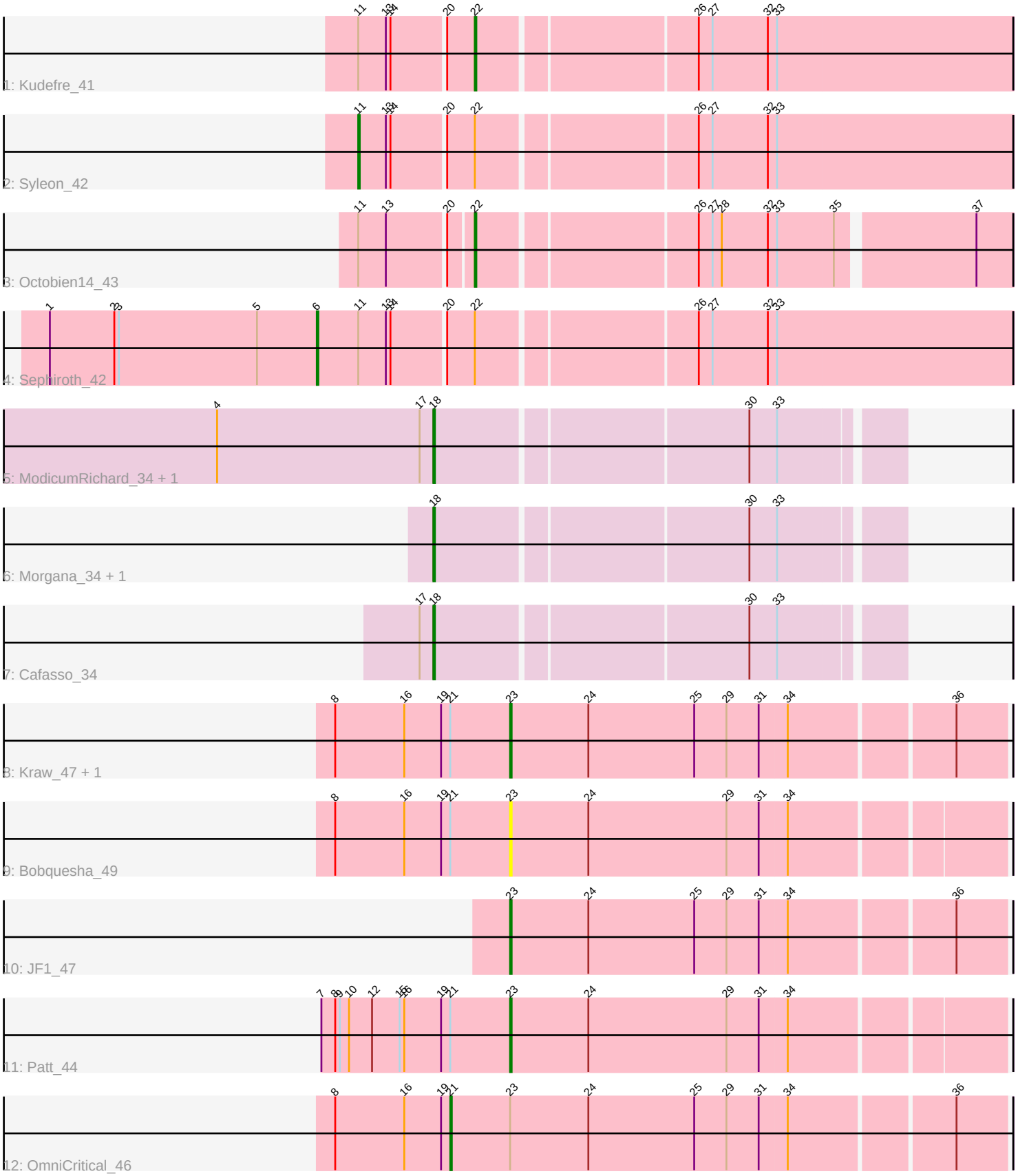
Pham 295203


1: Kudefre_41
2: Syleon_42
3: Octobien14_43
4: Sephiroth_42
5: ModicumRichard_34 + 1
6: Morgana_34 + 1
7: Cafasso_34
8: Kraw_47 + 1
9: Bobquesha_49
10: JF1_47
11: Patt_44
12: OmniCritical_46

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 295203 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295203 has 15 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Kudefre_41
• Track 2 : Syleon_42
• Track 3 : Octobien14_43
• Track 4 : Sephiroth_42
• Track 5 : ModicumRichard_34, Aleemily_33
• Track 6 : Morgana_34, ObLaDi_34
• Track 7 : Cafasso_34
• Track 8 : Kraw_47, Qhanda_49
• Track 9 : Bobquesha_49
• Track 10 : JF1_47
• Track 11 : Patt_44
• Track 12 : OmniCritical_46

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

The start number called the most often in the published annotations is 18, it was called in 5 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aleemily_33, Cafasso_34, ModicumRichard_34, Morgana_34, ObLaDi_34,

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

Genes that do not have the "Most Annotated" start:
• Bobquesha_49, JF1_47, Kraw_47, Kudefre_41, Octobien14_43, OmniCritical_46, Patt_44, Qhanda_49, Sephiroth_42, Syleon_42,

Summary by start number:

Start 6:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Sephiroth_42 (DU1),

Start 11:
• Found in 4 of 15 (26.7%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Syleon_42 (DU1),

Start 18:
• Found in 5 of 15 (33.3%) of genes in pham
• Manual Annotations of this start: 5 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_33 (DZ), Cafasso_34 (DZ), ModicumRichard_34 (DZ), Morgana_34 (DZ), ObLaDi_34 (DZ),

Start 21:
• Found in 5 of 15 (33.3%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 20.0% of time when present
• Phage (with cluster) where this start called: OmniCritical_46 (K4),

Start 22:
• Found in 4 of 15 (26.7%) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Kudefre_41 (DU1), Octobien14_43 (DU1),

Start 23:
• Found in 6 of 15 (40.0%) of genes in pham
• Manual Annotations of this start: 3 of 13
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Bobquesha_49 (K4), JF1_47 (K4), Kraw_47 (K4), Patt_44 (K4), Qhanda_49 (K4),

Summary by clusters:

There are 3 clusters represented in this pham: DU1, DZ, K4,

Info for manual annotations of cluster DU1:
•Start number 6 was manually annotated 1 time for cluster DU1.
•Start number 11 was manually annotated 1 time for cluster DU1.
•Start number 22 was manually annotated 2 times for cluster DU1.

Info for manual annotations of cluster DZ:
•Start number 18 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster K4:
•Start number 21 was manually annotated 1 time for cluster K4.
•Start number 23 was manually annotated 3 times for cluster K4.

Gene Information:

Gene: Aleemily_33 Start: 28703, Stop: 28416, Start Num: 18
Candidate Starts for Aleemily_33:
(4, 28844), (17, 28712), (Start: 18 @28703 has 5 MA's), (30, 28508), (33, 28490),

Gene: Bobquesha_49 Start: 35368, Stop: 35057, Start Num: 23
Candidate Starts for Bobquesha_49:
(8, 35482), (16, 35437), (19, 35413), (Start: 21 @35407 has 1 MA's), (Start: 23 @35368 has 3 MA's), (24, 35317), (29, 35227), (31, 35206), (34, 35188),

Gene: Cafasso_34 Start: 29277, Stop: 28990, Start Num: 18
Candidate Starts for Cafasso_34:
(17, 29286), (Start: 18 @29277 has 5 MA's), (30, 29082), (33, 29064),

Gene: JF1_47 Start: 36061, Stop: 35747, Start Num: 23
Candidate Starts for JF1_47:
(Start: 23 @36061 has 3 MA's), (24, 36010), (25, 35941), (29, 35920), (31, 35899), (34, 35881), (36, 35779),

Gene: Kraw_47 Start: 35905, Stop: 35591, Start Num: 23
Candidate Starts for Kraw_47:
(8, 36019), (16, 35974), (19, 35950), (Start: 21 @35944 has 1 MA's), (Start: 23 @35905 has 3 MA's), (24, 35854), (25, 35785), (29, 35764), (31, 35743), (34, 35725), (36, 35623),

Gene: Kudefre_41 Start: 32903, Stop: 32565, Start Num: 22
Candidate Starts for Kudefre_41:
(Start: 11 @32975 has 1 MA's), (13, 32957), (14, 32954), (20, 32921), (Start: 22 @32903 has 2 MA's), (26, 32768), (27, 32759), (32, 32723), (33, 32717),

Gene: ModicumRichard_34 Start: 29276, Stop: 28989, Start Num: 18
Candidate Starts for ModicumRichard_34:
(4, 29417), (17, 29285), (Start: 18 @29276 has 5 MA's), (30, 29081), (33, 29063),

Gene: Morgana_34 Start: 29032, Stop: 28745, Start Num: 18
Candidate Starts for Morgana_34:
(Start: 18 @29032 has 5 MA's), (30, 28837), (33, 28819),

Gene: ObLaDi_34 Start: 29255, Stop: 28968, Start Num: 18
Candidate Starts for ObLaDi_34:
(Start: 18 @29255 has 5 MA's), (30, 29060), (33, 29042),

Gene: Octobien14_43 Start: 33598, Stop: 33269, Start Num: 22
Candidate Starts for Octobien14_43:
(Start: 11 @33667 has 1 MA's), (13, 33649), (20, 33613), (Start: 22 @33598 has 2 MA's), (26, 33463), (27, 33454), (28, 33448), (32, 33418), (33, 33412), (35, 33376), (37, 33292),

Gene: OmniCritical_46 Start: 35929, Stop: 35576, Start Num: 21
Candidate Starts for OmniCritical_46:
(8, 36004), (16, 35959), (19, 35935), (Start: 21 @35929 has 1 MA's), (Start: 23 @35890 has 3 MA's), (24, 35839), (25, 35770), (29, 35749), (31, 35728), (34, 35710), (36, 35608),

Gene: Patt_44 Start: 35104, Stop: 34793, Start Num: 23

Candidate Starts for Patt_44:
(7, 35227), (8, 35218), (9, 35215), (10, 35209), (12, 35194), (15, 35176), (16, 35173), (19, 35149), (Start: 21 @35143 has 1 MA's), (Start: 23 @35104 has 3 MA's), (24, 35053), (29, 34963), (31, 34942), (34, 34924),

Gene: Qhanda_49 Start: 36002, Stop: 35688, Start Num: 23
Candidate Starts for Qhanda_49:
(8, 36116), (16, 36071), (19, 36047), (Start: 21 @36041 has 1 MA's), (Start: 23 @36002 has 3 MA's), (24, 35951), (25, 35882), (29, 35861), (31, 35840), (34, 35822), (36, 35720),

Gene: Sephiroth_42 Start: 33173, Stop: 32736, Start Num: 6
Candidate Starts for Sephiroth_42:
(1, 33347), (2, 33305), (3, 33302), (5, 33212), (Start: 6 @33173 has 1 MA's), (Start: 11 @33146 has 1 MA's), (13, 33128), (14, 33125), (20, 33092), (Start: 22 @33074 has 2 MA's), (26, 32939), (27, 32930), (32, 32894), (33, 32888),

Gene: Syleon_42 Start: 33067, Stop: 32657, Start Num: 11
Candidate Starts for Syleon_42:
(Start: 11 @33067 has 1 MA's), (13, 33049), (14, 33046), (20, 33013), (Start: 22 @32995 has 2 MA's), (26, 32860), (27, 32851), (32, 32815), (33, 32809),